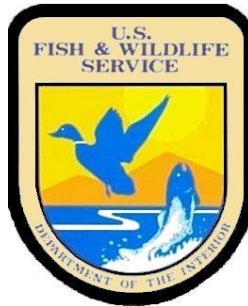


# **The Road Inventory of William L Finley National Wildlife Refuge Corvallis, OR**



Prepared By:  
Federal Highway Administration  
Central Federal Lands Highway Division  
February 2013



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## INTRODUCTION

The Transportation Equity Act for the 21<sup>st</sup> Century (Public Law 105-178) created the Refuge Roads Program. Refuge roads are those public roads that provide access to or within a unit of the National Wildlife Refuge System and for which title and maintenance responsibility is vested in the United States Government. Funds from the Highway Trust Fund are available for refuge roads and can be used by the station to pay the cost of:

- (a) Maintenance and improvements of refuge roads.
- (b) Maintenance and improvements of:
  - (1) Adjacent vehicle parking areas
  - (2) Provision for pedestrians and bicycles and
  - (3) Construction and reconstruction of roadside rest areas that are located in or adjacent to wildlife refuges
- (c) Administrative costs associated with such maintenance and improvements.

The funds available for refuge roads are to be disbursed based on the relative needs of the various refuges in the National Wildlife Refuge System, and taking into consideration:

- (a) The comprehensive conservation plan for each refuge;
- (b) The need for access as identified through land use planning; and
- (c) The impact of land use planning on existing transportation facilities.

To determine the relative needs of the U.S. Fish and Wildlife Service, the Federal Highway Administration (FHWA) was asked to inventory all public access roads and parking lots and provide a condition assessment of each. In 2008 the inventory was expanded to include administrative (service use only) roads and parking lots. An FHWA representative meets with refuge personnel to identify route segments and assign route numbers and functional classifications (See Appendix) for each route. All roads and parking lots are mapped using Trimble GPS units and visually assessed for condition using the RSL method of evaluation developed at Utah State University (See Appendix). Culverts, Gates, Guardrails and Low Water Crossings are also mapped and inspected for any obvious defects.

An estimate is provided, in year 2008 dollars, based on the condition determined by the rating system. Estimates are based upon data and location factors from the 2008 RS Means Heavy Construction Cost Data 22<sup>nd</sup> Annual Edition. Cost estimates should be evaluated on a case-by-case basis when being used for programming purposes.

Native Surfaced roads and parking lots already inventoried will not be re-inventoried and will not appear individually in report chapters 5, 6 and 8. Mileages and areas of native surfaced roads and parking lots will still appear in all summaries in the report and will remain in the road inventory database. In addition to this report, the FHWA will furnish the condition ratings of each route and segment to the Fish and Wildlife Service in a Microsoft Access database so the data can be included in their Real Property Inventory.

# William L Finley NWR - 13589

## Summaries

### Route Miles and Percentages by Functional Class and Condition

Condition Rating (Based on RSL)\*

F. C.	Excellent		Good		Fair		Poor		Failed		TOTAL MILES
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
I	0.00	0.0%	3.65	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	3.65
II	0.00	0.0%	0.40	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.40
III	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
IV	0.10	58.8%	0.07	41.2%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.17
V	1.06	13.8%	4.70	61.4%	1.54	20.1%	0.36	4.7%	0.00	0.0%	7.66
<b>Totals</b>	<b>1.16</b>	<b>9.8%</b>	<b>8.82</b>	<b>74.2%</b>	<b>1.54</b>	<b>13.0%</b>	<b>0.36</b>	<b>3.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>11.88</b>

\*For a description of condition ratings for the various surface types see the Appendix.

### Route Miles and Percentages by Surface Type and Condition

Paved Condition Rating [Condition(RSL)]

Surface	Excellent		Good		Fair		Poor		Failed		TOTAL MILES
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
AS	0.00	0.0%	0.05	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.05
CO	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
<b>Totals</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.05</b>	<b>100.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.05</b>

Unpaved Condition Rating [Condition(RSL)]

Surface	Excellent		Good		Fair		Poor		Failed		TOTAL MILES
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
GR	1.16	10.2%	8.70	76.9%	1.10	9.7%	0.36	3.2%	0.00	0.0%	11.32
NA	0.00	0.0%	0.07	13.7%	0.44	86.3%	0.00	0.0%	0.00	0.0%	0.51
PR	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
<b>Totals</b>	<b>1.16</b>	<b>9.8%</b>	<b>8.77</b>	<b>74.1%</b>	<b>1.54</b>	<b>13.0%</b>	<b>0.36</b>	<b>3.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>11.83</b>

### Square Footage (Parking Areas)

Condition Rating

Surface	Excellent		Good		Fair		Poor		Failed		Total SQ FT
	SQ FT	%	SQ FT	%	SQ FT	%	SQ FT	%	SQ FT	%	
AS	22,296	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	22,296
CO	0	0.0%	820	52.1%	755	47.9%	0	0.0%	0	0.0%	1,575
GR	46,121	26.1%	123,357	69.9%	7,079	4.0%	0	0.0%	0	0.0%	176,557
NA	0	0.0%	9,425	100.0%	0	0.0%	0	0.0%	0	0.0%	9,425
PR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
<b>Totals</b>	<b>68,417</b>	<b>32.6%</b>	<b>133,602</b>	<b>63.7%</b>	<b>7,834</b>	<b>3.7%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>209,853</b>

# William L Finley NWR - 13589

## Summaries

### Route Miles and Percentages by Use Type and Condition

Road Condition Rating: Public/Administrative Use

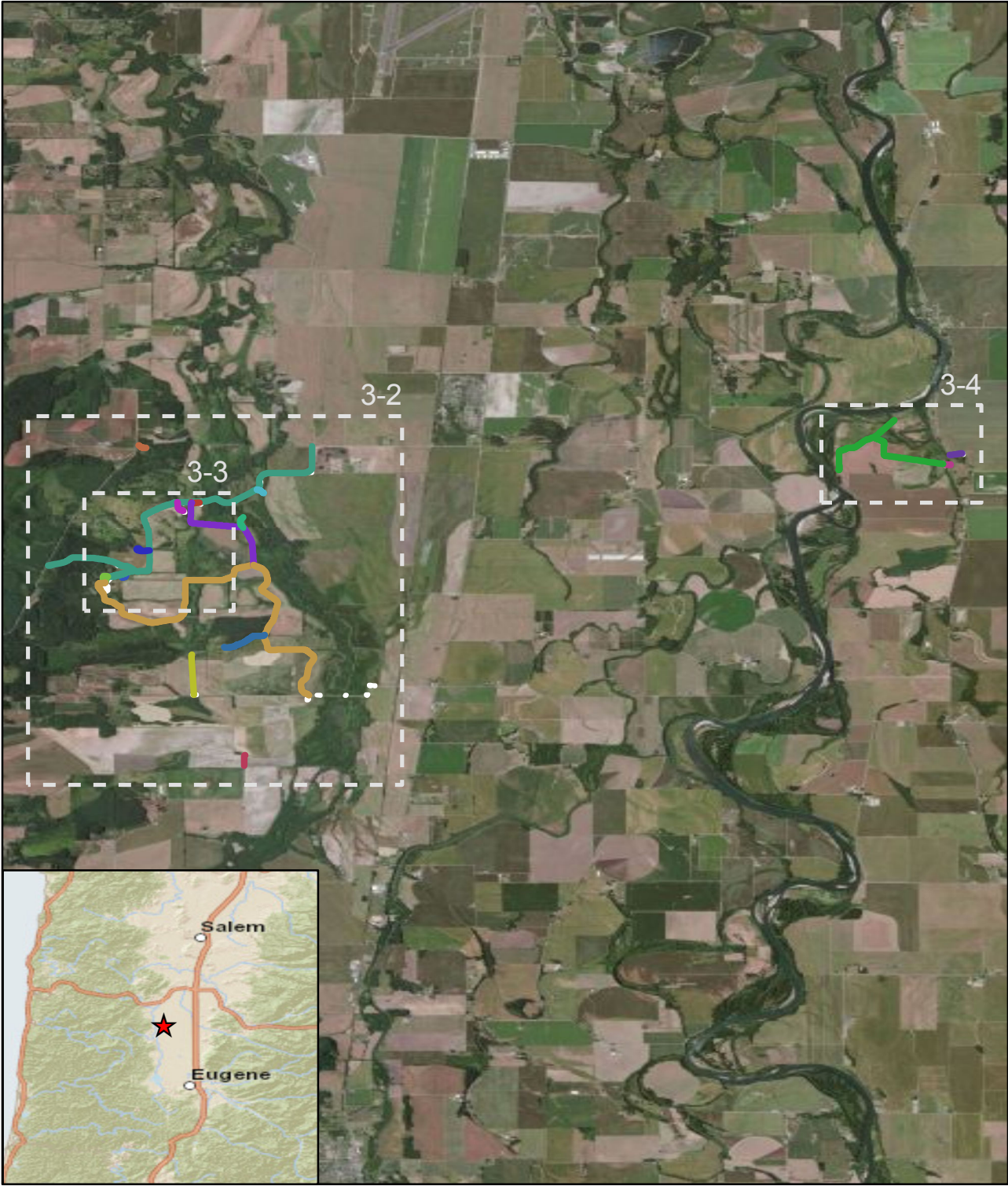
USE TYPE	Excellent		Good		Fair		Poor		Failed		TOTAL MILES
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
Public (FC I-III)	0.00	0.0%	4.05	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	4.05
Admin (FC IV-V)	1.16	14.8%	4.77	60.9%	1.54	19.7%	0.36	4.6%	0.00	0.0%	7.83
Totals	1.16	9.8%	8.82	74.2%	1.54	13.0%	0.36	3.0%	0.00	0.0%	11.88

### Parking Condition Rating: Public/Administrative Use

USE TYPE	Excellent		Good		Fair		Poor		Failed		Total Sq Ft
	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	
Public	68417	46.2%	77698	52.5%	1977	1.3%	0	0.0%	0	0.0%	148,092
Admin	0	0.0%	55904	90.5%	5857	9.5%	0	0.0%	0	0.0%	61,761
Totals	68,417	32.6%	133,602	63.7%	7,834	3.7%	0	0.0%	0	0.0%	209,853

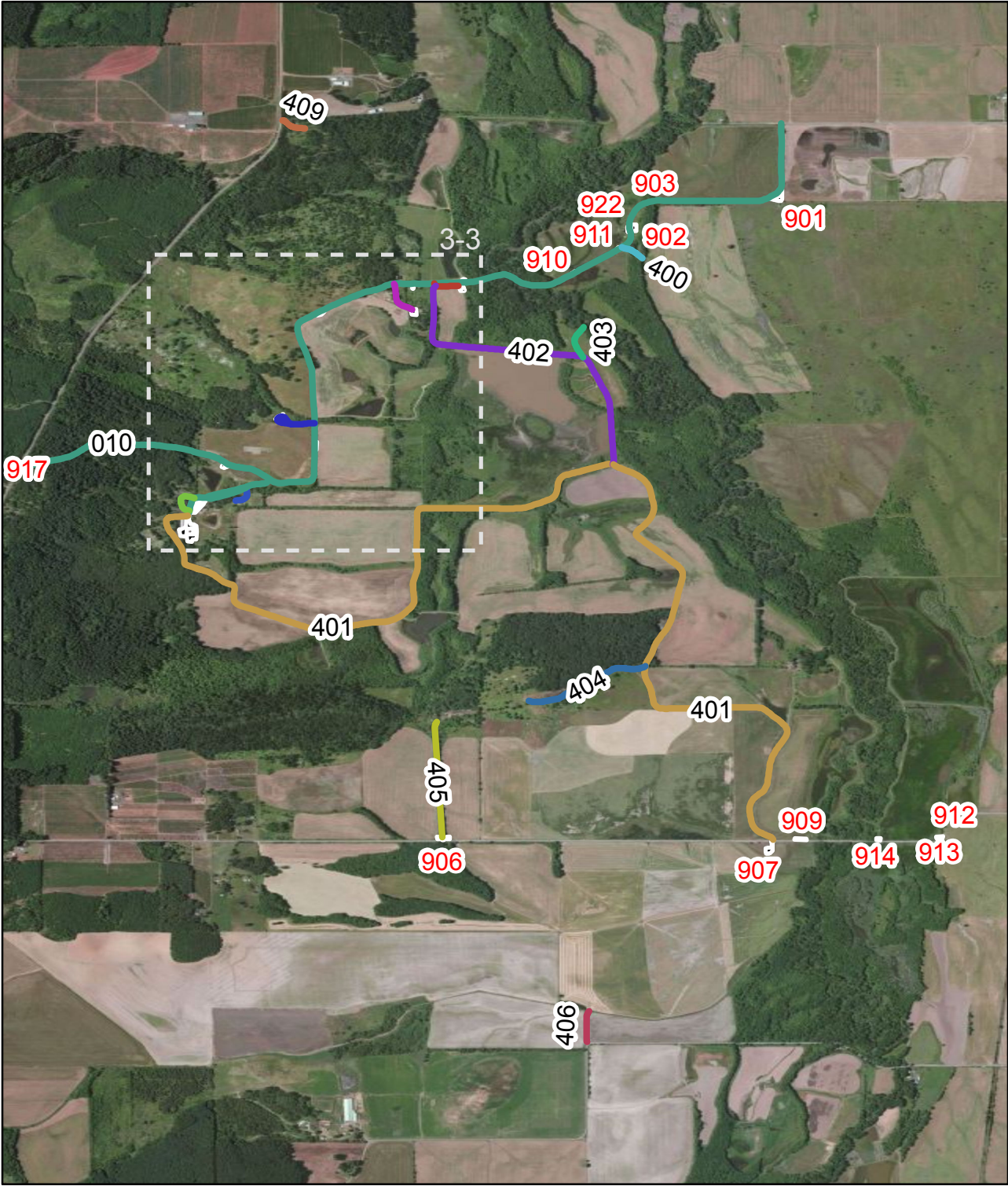
# William L. Finley NWR

## Route Location Map





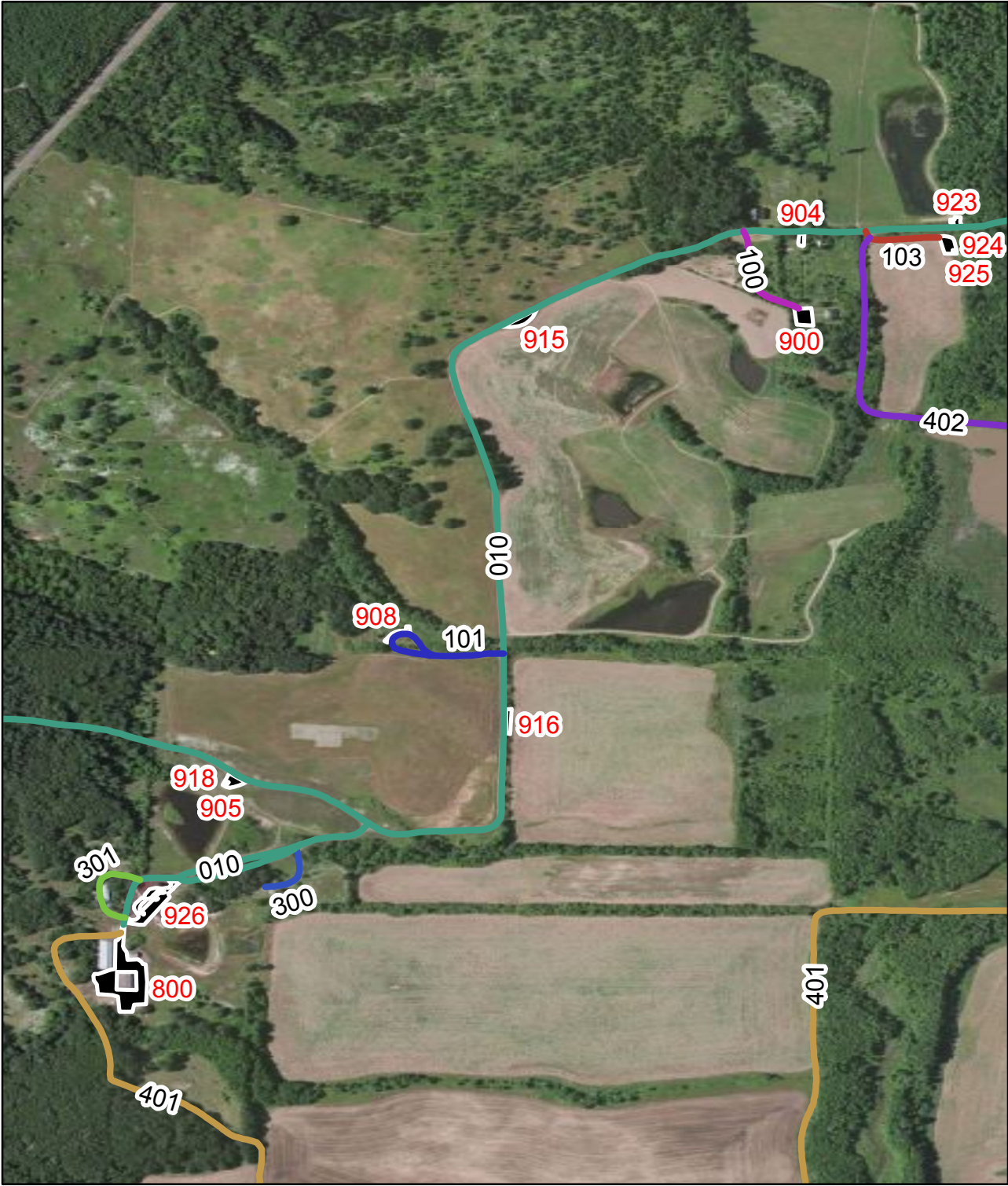
# William L. Finley NWR Route Location Map





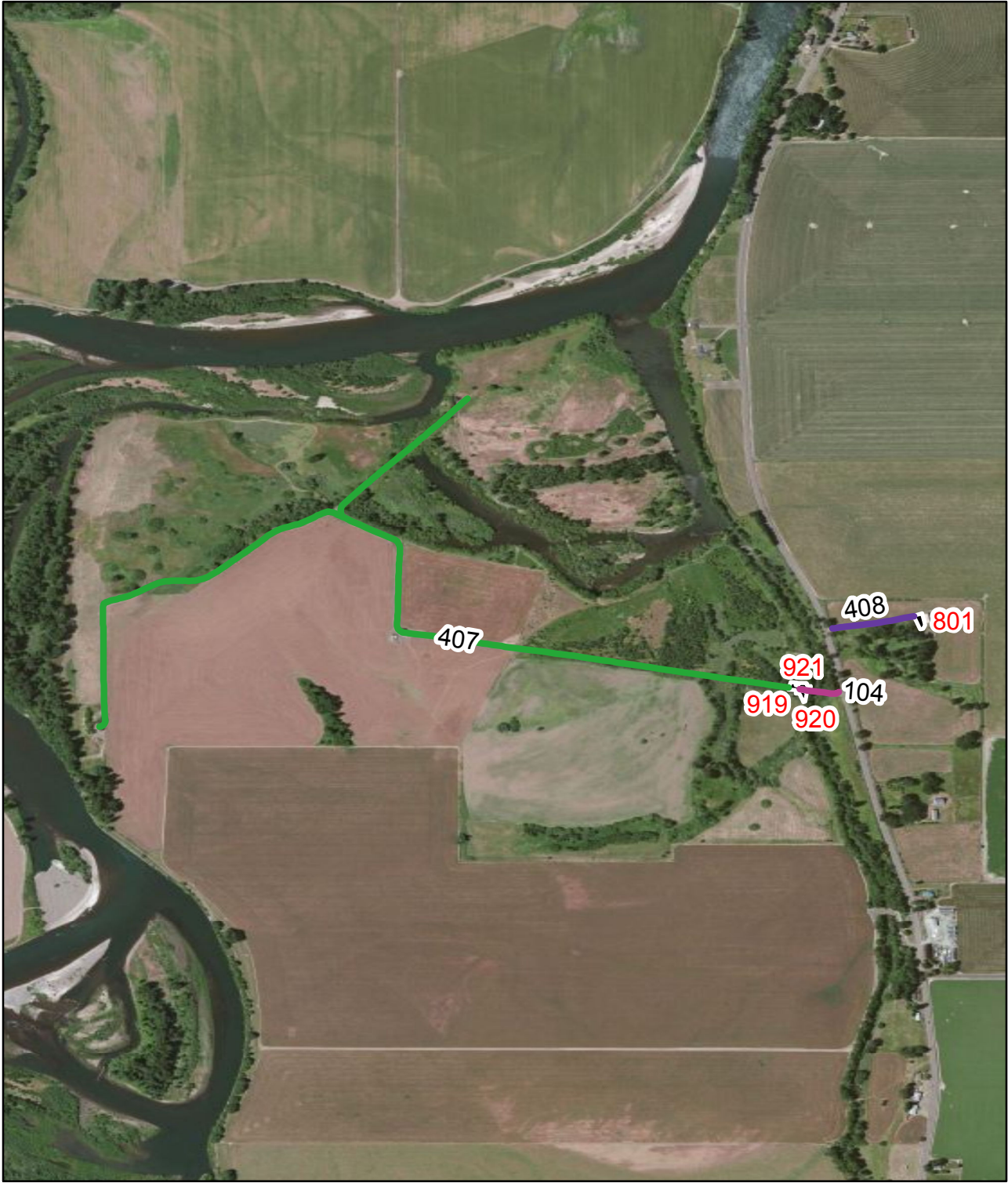
# William L. Finley NWR

## Route Location Map





# William L. Finley NWR Route Location Map



**William L Finley NWR - 13589**  
**Route Identification List**

Shading Color Key:

White = Paved Routes
Yellow = Unpaved Routes

RTE #	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN-PAVED MI	LANES	FC
010	10004462	Finley Refuge Road	3.65	From Finley Road to Shop Parking (Route 800)	-	3.65	2	1
100	10049064	Cambell Lodge Parking	0.12	From Finley Refuge Road (Route 010) to Cambell Lodge Parking (Route 900)	-	0.12	2	2
101	10048839	Woodpecker Loop Road	0.16	From Finley Refuge Road (Route 010) to end of loop	-	0.16	1	2
103	10058599	Homer Cambell Road	0.07	From Finley Refuge Road (Route 010) to Homer Cambell Parking (Route 924)	-	0.07	2	2
104	-	Snag Boat Bend West Access	0.05	From Peoria Road to Snag Boat Bend West Parking (Route 919)	0.05	-	2	2
300	10048918	Residence Quarters 4 Road	0.07	From Finley Refuge Road (Route 010) to Residence	-	0.07	1	4
301	-	Residence Road	0.10	From Finley Refuge Road (Route 010) back to Finley Refuge Road (Route 010)	-	0.10	1	4
400	10048922	Field 2/Middle Prairie Access Road	0.07	From Finley Refuge Road (Route 010) to problem area	-	0.07	1	5
401	10004463	Interior Road	3.86	From Shop Parking (Route 800) to Bruce Road	-	3.86	1	5
402	10004472	North Cambell Road	1.04	From Homer Cambell Road (Route 103) to Interior Road (Route 401)	-	1.04	1	5
403	-	Cambell Pump Access	0.12	From North Cambell Road (Route 402) to pump	-	0.12	1	5
404	-	Pigeon Butte Quarry Road	0.36	From Interior Road (Route 401) to Pigeon Butte Quarry	-	0.36	1	5
405	10048920	Pigeon Springs Access Road	0.44	From Pigeon Springs Parking (Route 906) to end of field	-	0.44	1	5
406	10048924	Field 12S Access Road	0.12	From Mcfarland Road to field access	-	0.12	1	5
407	10004508	Snag Boat Bend West Administrative Access Road	1.48	From Snag Boat Bend West Parking (Route 919) to all roads within Snag Boat Bend Unit	-	1.48	1	5
408	10048915	Snag Boat Bend East Administrative Access Road	0.10	From Peoria Road to Snag Boat Bend East Shop Parking (Route 801)	-	0.10	1	5
409	-	Brown Creek Access Road	0.07	From Bellfountain Road to problem area	-	0.07	1	5

**William L Finley NWR - 13589**  
**Route Identification List (Parking)**

Shading Color Key:

White = Paved Routes
Green = Unpaved Routes

Route #	Asset Number	ROUTE NAME	Area (Sq Ft)	ROUTE DESCRIPTION	Surface Type
800	10048218	Shop Parking	55,904	From Finley Refuge Road (Route 010)	Gravel
801	10048914	Snag Boat Bend East Shop Parking	5,857	From Snag Boat Bend East Administrative Access Road (Route 408)	Gravel
900	10048878	Cambell Lodge Parking	8,709	From Cambell Lodge Parking (Route 100)	Gravel
901	-	Prairie Overlook Parking	13,781	From Finley Refuge Road (Route 010)	Gravel
902	10048907	Restroom Parking	2,771	From Finley Refuge Road (Route 010)	Gravel
903	10048993	Hunter Parking	9,425	From Finley Refuge Road (Route 010)	Native
904	10048879	Feichter House Parking	1,960	From Finley Refuge Road (Route 010)	Gravel
905	10048874	Mill Hill Trail Parking	5,206	From Finley Refuge Road (Route 010)	Gravel
906	10048179	Pigeon Springs Parking	7,275	From Bruce Road	Gravel
907	10004443	Bruce Road Overlook Parking	12,200	From Bruce Road	Gravel
908	10048913	Woodpecker Loop Parking	2,516	From Woodpecker Loop Road (Route 101)	Gravel
909	10048181	Cheadle Marsh Parking	5,643	From Bruce Road	Gravel
910	10048903	Vehicle Turnout at Turtle Flats West	1,007	From Finley Refuge Road (Route 010)	Gravel
911	10048881	Turtle Flats East	1,196	From Finley Refuge Road (Route 010)	Gravel
912	10048197	McFadden Marsh Observation Blind Parking	13,493	From Bruce Road	Gravel
913	10048196	McFadden Marsh East Parking Lot	6,085	From Bruce Road	Gravel
914	10048192	McFadden Marsh West Parking Lot	2,857	From Bruce Road	Gravel
915	10048883	Field #22 Vehicle Turnout	5,956	From Finley Refuge Road (Route 010)	Gravel
916	10048884	Field #4 Turnout	3,766	From Finley Refuge Road (Route 010)	Gravel
917	-	Vehicle Turnout at Bellfountain Entrance	1,222	From Finley Refuge Road (Route 010)	Gravel
918	-	Mill Hill Trail HC Parking	317	From Mill Hill Trail Parking (Route 905)	Concrete
919	-	Snag Boat Bend West Parking	10,081	From Snag Boat Bend West Access (Route 104)	Gravel
920	10048575	Snag Boat Bend Handicapped Parking North	408	From Snag Boat Bend West Parking (Route 919)	Concrete
921	-	Snag Boat Bend Handicapped Parking South	347	From Snag Boat Bend West Parking (Route 919)	Concrete
922	-	Restroom HC Parking	300	From Restroom Parking (Route 902)	Concrete
923	-	Photo Blind Parking	2,206	From Finley Refuge Road (Route 010)	Gravel
924	10058598	Homer Cambell Parking	6,866	From Homer Cambell Road (Route 103)	Gravel
925	-	Homer Cambell HC Parking	203	From Homer Cambell Parking (Route 924)	Concrete
926	-	Visitor Center Parking	22,296	From Finley Refuge Road (Route 010)	Asphalt

# CHANGES TO THE FISH AND WILDLIFE SERVICE ROAD INVENTORY REPORT

William L Finley NWR

Routes added to previous inventory:		
Rte #	Rte Name	Reason For Addition
926	Visitor Center Parking	New Public Route
925	Homer Cambell HC Parking	New Public Route
924	Homer Cambell Parking	New Public Route
923	Photo Blind Parking	New Public Route
922	Restroom HC Parking	New Public Route
921	Snag Boat Bend Handicapped Parking South	New Public Route
920	Snag Boat Bend Handicapped Parking North	New Public Route
919	Snag Boat Bend West Parking	New Public Route
918	Mill Hill Trail HC Parking	New Public Route
801	Snag Boat Bend East Shop Parking	New Administrative Route
800	Shop Parking	New Administrative Route
409	Brown Creek Access Road	New Administrative Route
408	Snag Boat Bend East Administrative Access Road	New Administrative Route
407	Snag Boat Bend West Administrative Access Road	New Administrative Route
406	Field 12S Access Road	New Administrative Route
405	Pigeon Springs Access Road	New Administrative Route
404	Pigeon Butte Quarry Road	New Administrative Route
403	Cambell Pump Access	New Administrative Route
402	North Cambell Road	New Administrative Route
401	Interior Road	New Administrative Route
400	Field 2/Middle Prairie Access Road	New Administrative Route
301	Residence Road	New Administrative Route
300	Residence Quarters 4 Road	New Administrative Route
104	Snag Boat Bend West Access	New Public Route
103	Bruce Road Overlook Access Road	New Public Route

Routes removed from previous inventory:		
Rte #	Rte Name	Reason For Removal
102	Bruce Road Overlook Access Road	Overlapped by Parking Lot Route 907

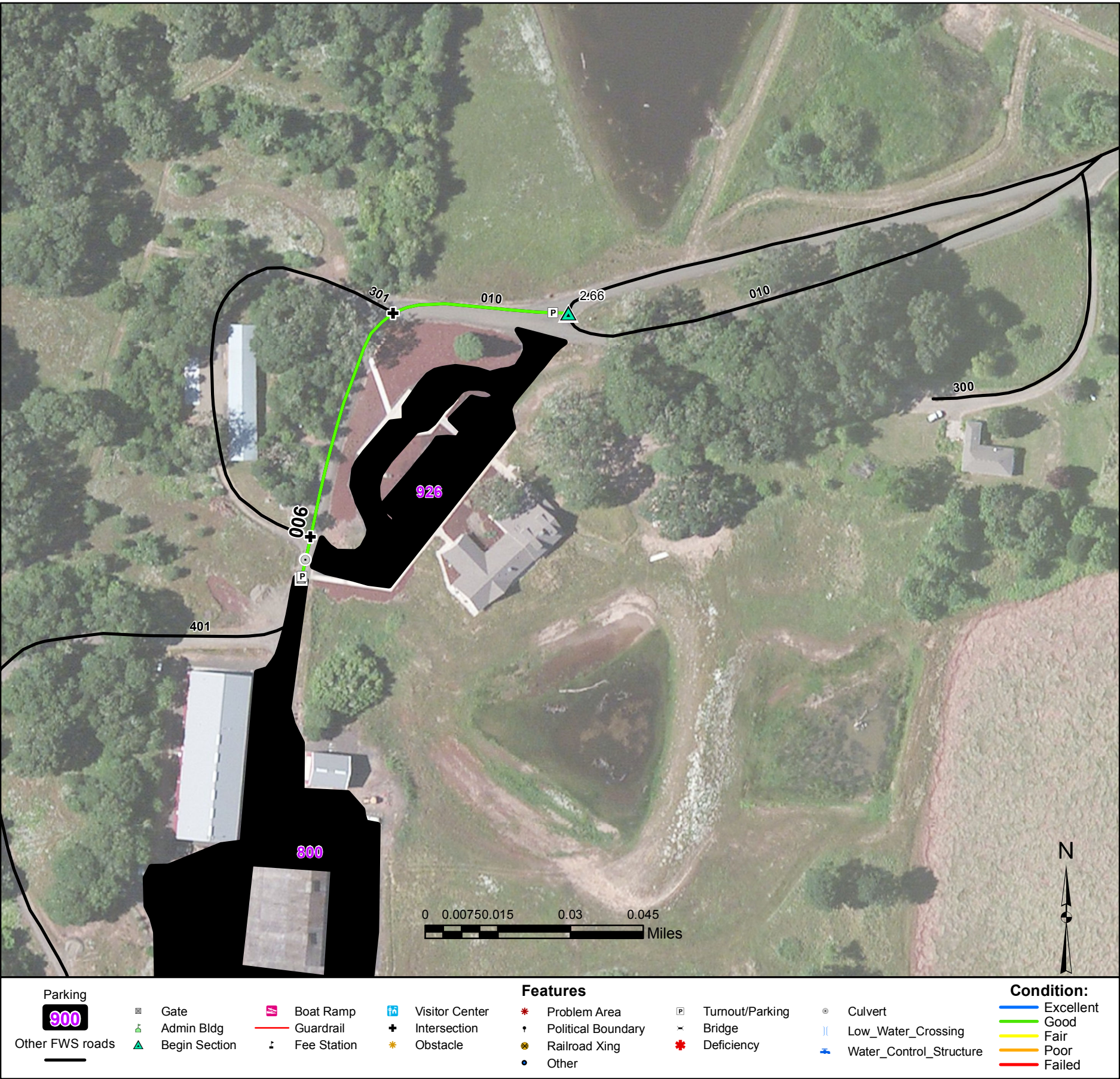
Routes modified from previous inventory:			
Rte #	Rte Name	Type of Modification	Description of Modification
907	Bruce Road Overlook Parking	New GPS Trace	
906	Pigeon Springs Parking	Name Change	Changed from Pigeon Butte Parking Lot
901	Prairie Overlook Parking	New GPS Trace/ Name Change	Changed from Parking Lot #1
900	Cambell Lodge Parking	Name Change	Changed from Refuge Office Parking

Comments:













Cambell Lodge Parking

From Finley Refuge Road (Route 010) to Cambell Lodge Parking (Route 900)

Route Number: 100

Total Route Mileage: 0.12

Asset Number	10049064				
Section Number	001				
Section Length (miles)	0.12				
Inspection Date	01-09-2013				
Surface Type	Gravel				
Number of Lanes	2				
Roadway Width (feet)	16				
Condition	Good				
Remaining Service Life (years)	7				
Estimated Cost to Repair	\$200				
Current Replacement Value	\$94,700				

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						
Turnout/Parking	001-0.12						

















**Parking**  
 900  
 Other FWS roads

**Gate**  
 G  
 Admin Bldg  
 B  
 Begin Section

**Boat Ramp**  
 BR  
 Guardrail  
  
 Fee Station  
 FS

**Visitor Center**  
 VC  
 Intersection  
  
 Obstacle  
 \*

**Features**  
 \* Problem Area  
 • Political Boundary  
 • Railroad Xing  
 • Other

**Turnout/Parking**  
 P  
 Bridge  
  
 Deficiency  
 \*

**Culvert**  
 C  
 Low\_Water\_Crossing  
 ||  
 Water\_Control\_Structure  
 WCS

**Condition:**  
 Excellent  
 Good  
 Fair  
 Poor  
 Failed

# Residence Quarters 4 Road

### From Finley Refuge Road (Route 010) to Residence

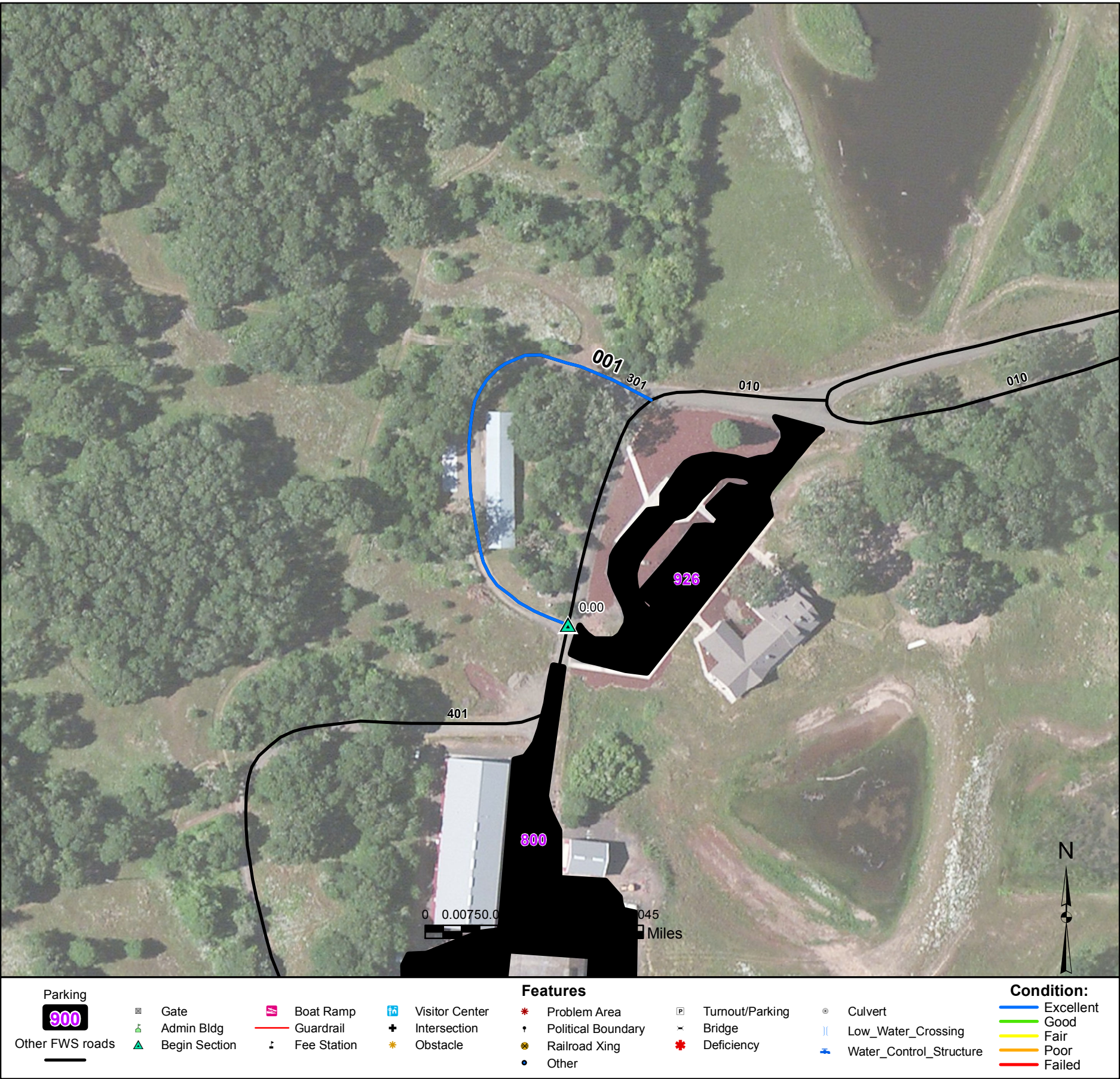
Route Number: 300

Total Route Mileage: 0.07

<b>Asset Number</b>	10048918				
<b>Section Number</b>	001				
<b>Section Length (miles)</b>	0.07				
<b>Inspection Date</b>	01-09-2013				
<b>Surface Type</b>	Gravel				
<b>Number of Lanes</b>	1				
<b>Roadway Width (feet)</b>	12				
<b>Condition</b>	Good				
<b>Remaining Service Life (years)</b>	7				
<b>Estimated Cost to Repair</b>	\$100				
<b>Current Replacement Value</b>	\$55,300				

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Culvert Gate	001-0.0 001-0.01 001-0.01						





Residence Road

From Finley Refuge Road (Route 010) back to Finley Refuge Road (Route 010)

Route Number: 301

Total Route Mileage: 0.10

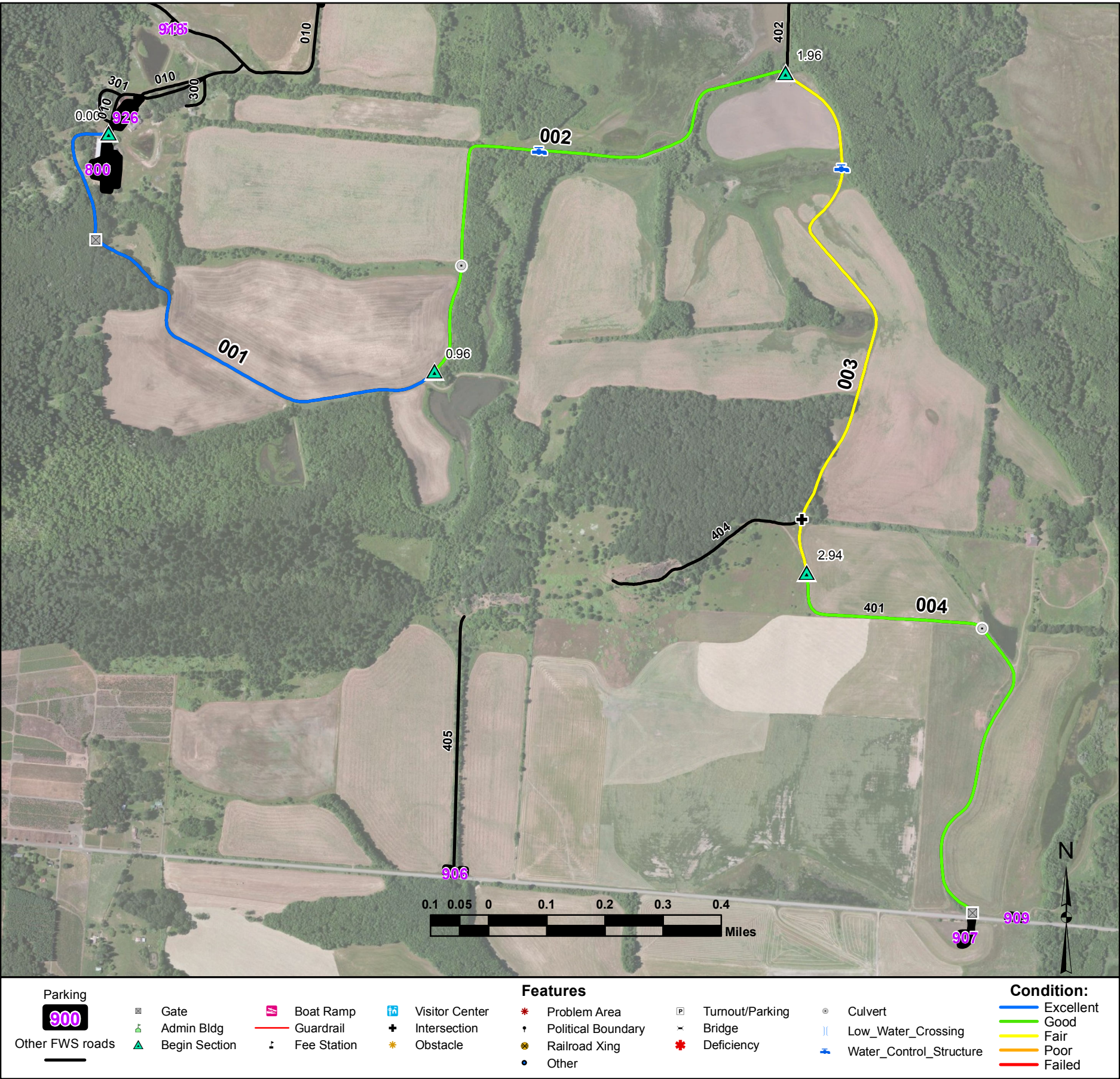
Asset Number	-				
Section Number	001				
Section Length (miles)	0.10				
Inspection Date	01-09-2013				
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	14				
Condition	Excellent				
Remaining Service Life (years)	9				
Estimated Cost to Repair	\$0				
Current Replacement Value	\$78,900				

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						

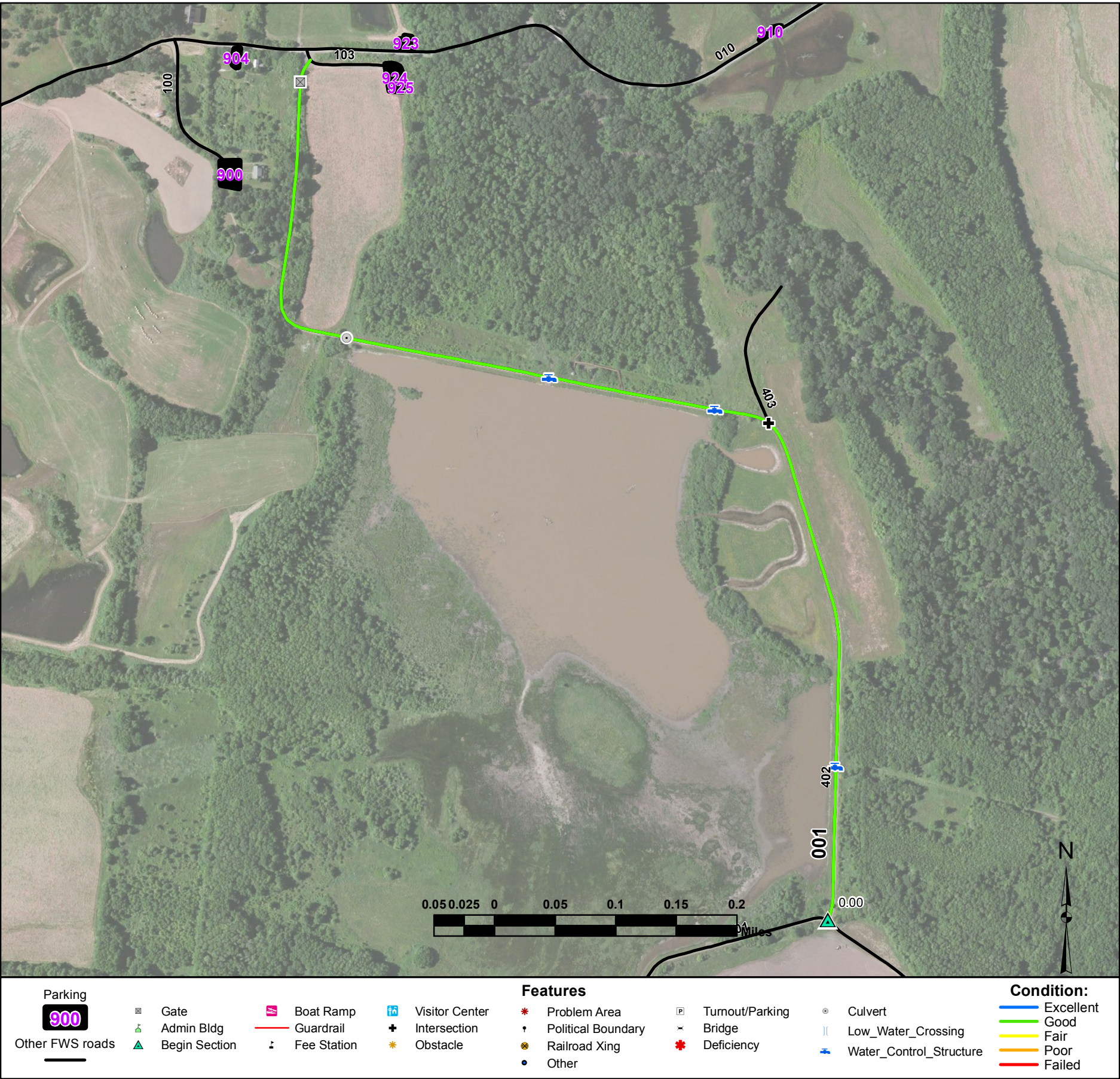












North Cambell Road

From Homer Cambell Road (Route 103) to Interior Road (Route 401)

Route Number: 402

Total Route Mileage: 1.04

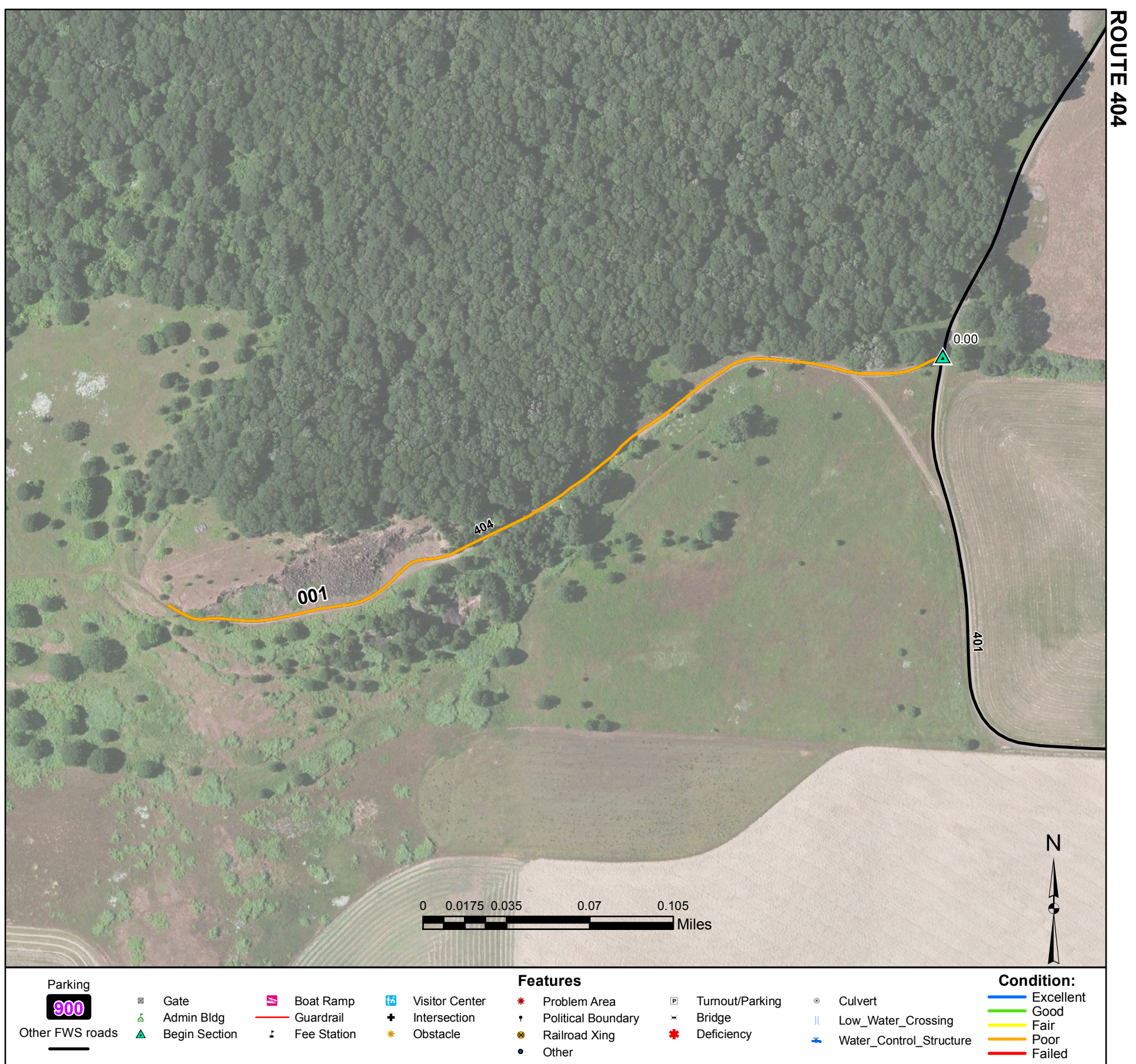
Asset Number	10004472				
Section Number	001				
Section Length (miles)	1.04				
Inspection Date	01-09-2013				
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Condition	Good				
Remaining Service Life (years)	7				
Estimated Cost to Repair	\$1,900				
Current Replacement Value	\$820,900				

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						
Water Control Structure	001-0.11						
Intersection	001-0.37						
Water Control Structure	001-0.42						
Water Control Structure	001-0.59						
2 Culverts	001-0.79						
Gate	001-1.02						









# Pigeon Butte Quarry Road

## From Interior Road (Route 401) to Pigeon Butte Quarry

Route Number: 404

Total Route Mileage: 0.36

<b>Asset Number</b>	-				
<b>Section Number</b>	001				
<b>Section Length (miles)</b>	0.36				
<b>Inspection Date</b>	01-09-2013				
<b>Surface Type</b>	Gravel				
<b>Number of Lanes</b>	1				
<b>Roadway Width (feet)</b>	12				
<b>Condition</b>	Poor				
<b>Remaining Service Life (years)</b>	2				
<b>Estimated Cost to Repair</b>	\$52,600				
<b>Current Replacement Value</b>	\$284,200				

<b>Features</b> Begin Section	<b>Mile Post</b> 001-0.0	<b>Features</b>	<b>Mile Post</b>	<b>Features</b>	<b>Mile Post</b>	<b>Features</b>	<b>Mile Post</b>
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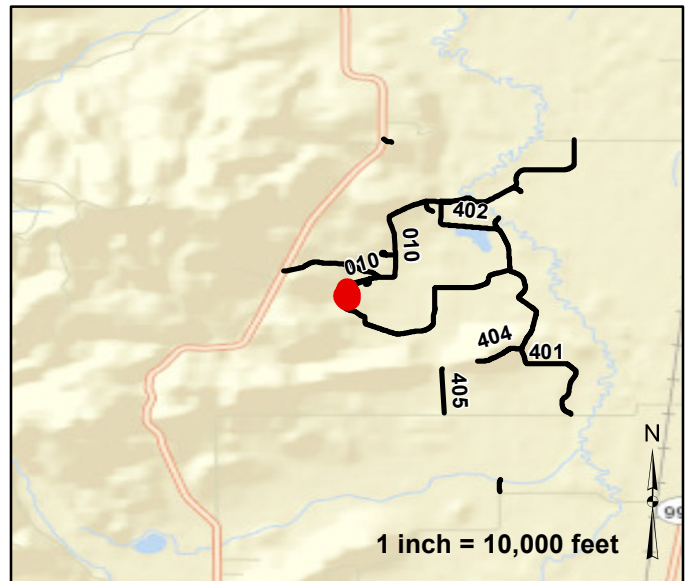
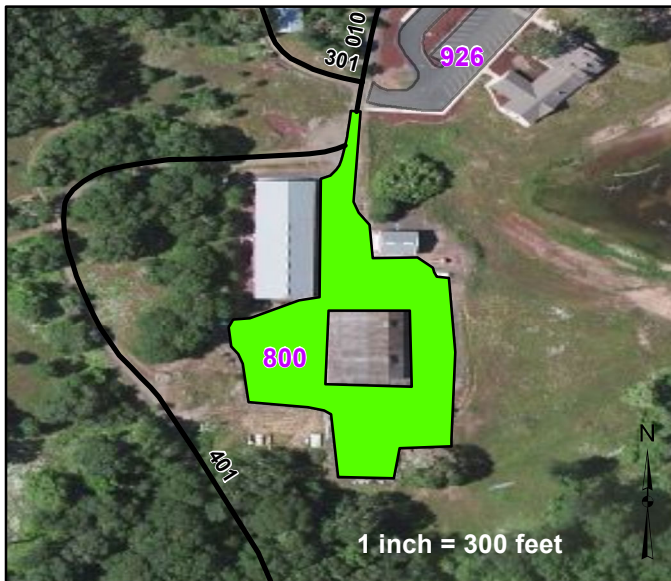


## Route Number: 800

### Shop Parking

From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048218	55904	20	Good	Gravel	\$9,600	01-09-2013	\$316,800



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed

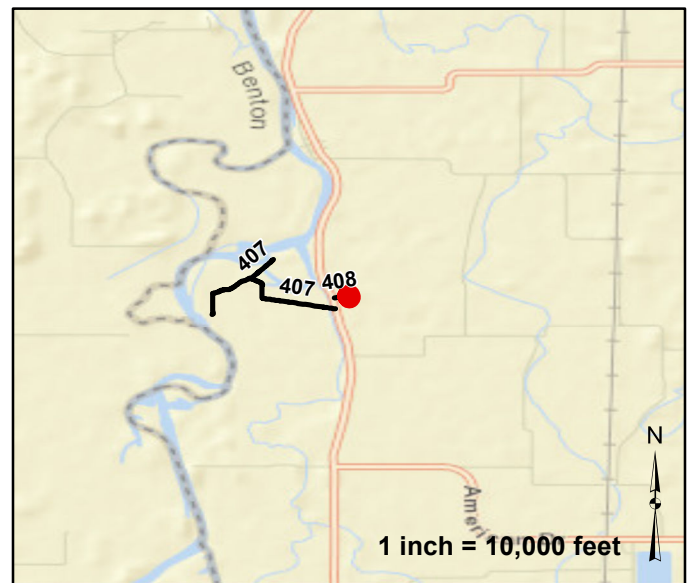
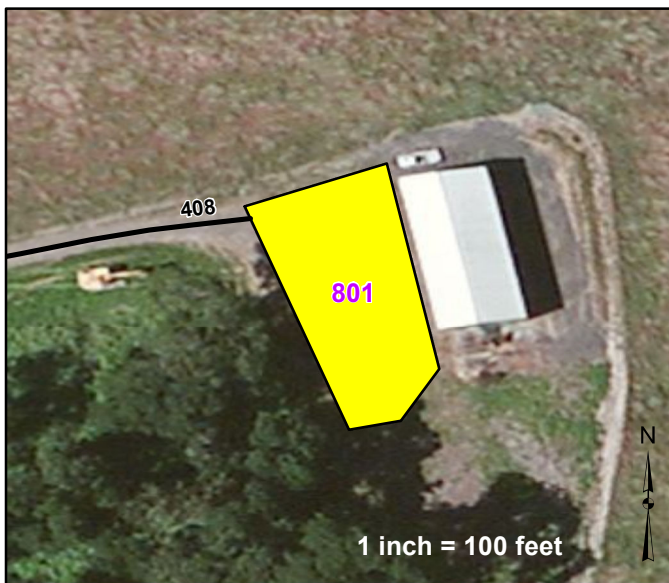


# Route Number: 801

## Snag Boat Bend East Shop Parking

From Snag Boat Bend East Administrative Access Road (Route 408)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048914	5857	10	Fair	Gravel	\$1,800	01-10-2013	\$33,200



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed

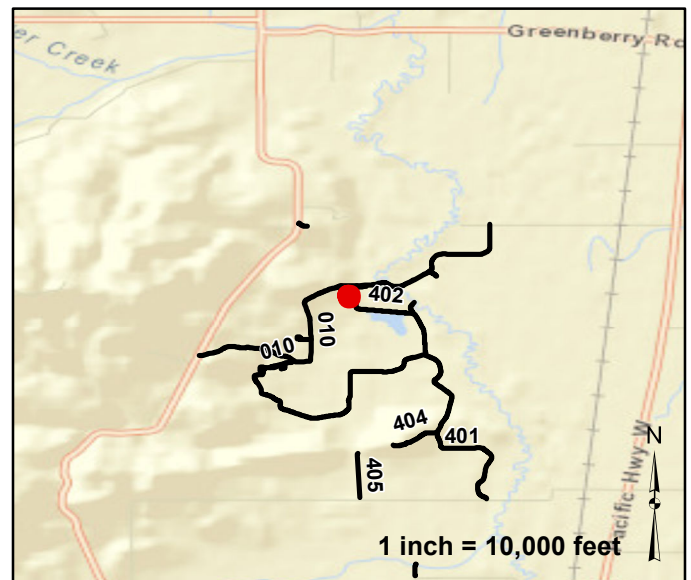


# Route Number: 900

## Cambell Lodge Parking

From Cambell Lodge Parking (Route 100)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048878	8709	10	Good	Gravel	\$1,500	01-09-2013	\$49,300

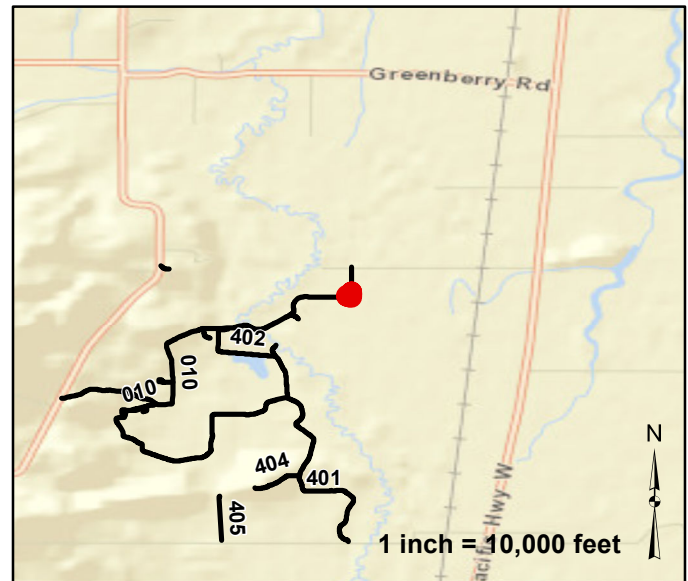
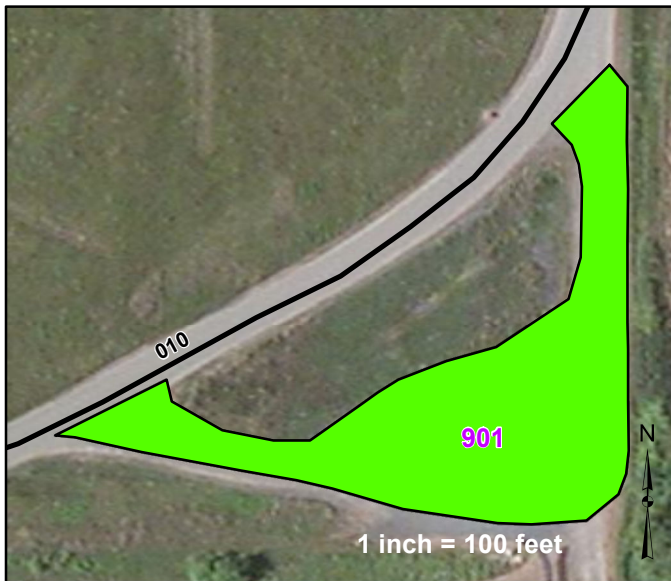


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads				Culvert		Poor
					Low_Water_Crossing		Failed
					Water_Control_Structure		



**Route Number: 901**  
**Prairie Overlook Parking**  
 From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	13781	10	Good	Gravel	\$2,400	01-09-2013	\$78,100



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads		Admin Bldg		Guardrail		Other	Good
		Begin Section		Fee Station		Problem Area	Fair
						Culvert	Poor
						Low_Water_Crossing	Failed
						Water_Control_Structure	

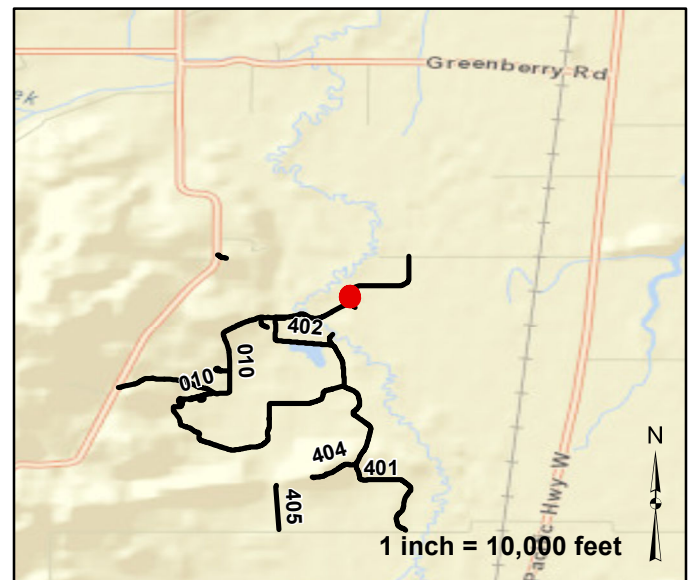


## Route Number: 902

### Restroom Parking

From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048907	2771	5	Good	Gravel	\$500	01-09-2013	\$15,700



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads		Admin Bldg		Guardrail		Other	Good
		Begin Section		Fee Station		Problem Area	Fair
						Culvert	Poor
						Low_Water_Crossing	Failed
						Water_Control_Structure	



## Route Number: 903

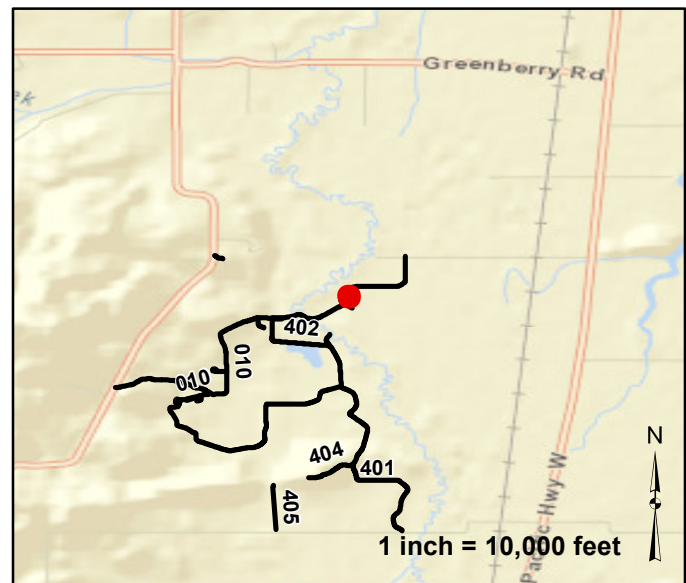
### Hunter Parking

From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048993	9425	50	Good	Native	\$1,600	05-24-2004	\$23,000



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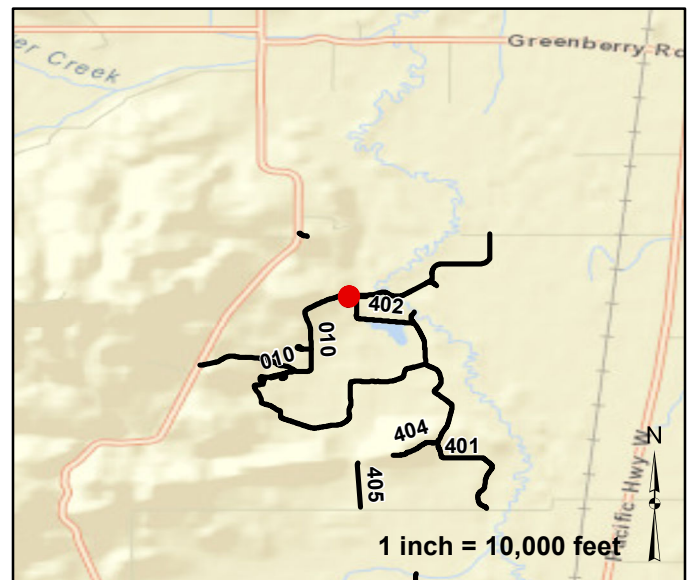


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed



**Route Number: 904**  
**Feichter House Parking**  
 From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048879	1960	10	Good	Gravel	\$300	05-24-2004	\$11,100



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed

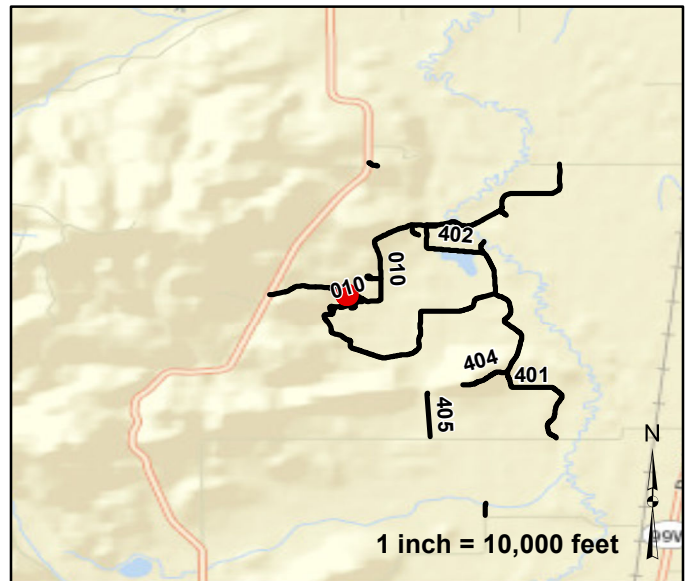
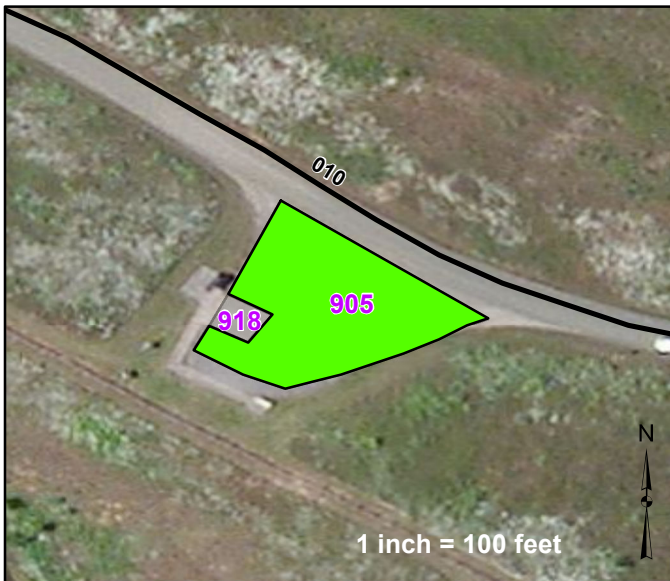


# Route Number: 905

## Mill Hill Trail Parking

From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048874	5206	8	Good	Gravel	\$900	01-09-2013	\$29,500

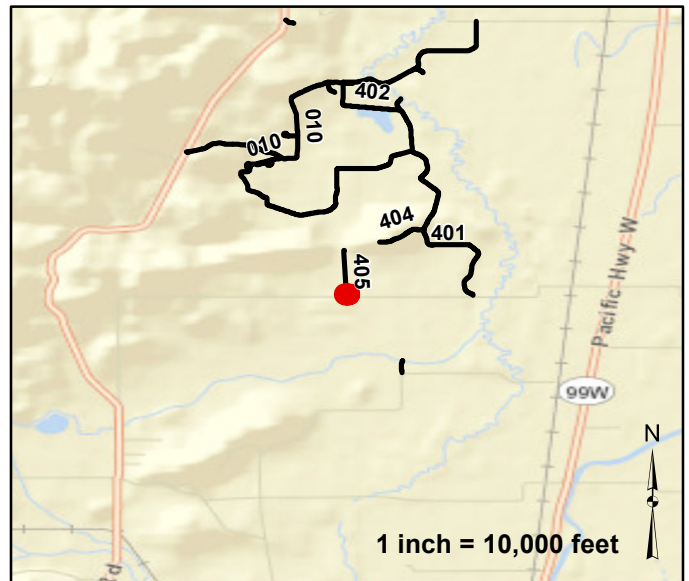


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
					Culvert		Poor
					Low_Water_Crossing		Failed
					Water_Control_Structure		



**Route Number: 906**  
**Pigeon Springs Parking**  
**From Bruce Road**

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048179	7275	20	Good	Gravel	\$1,200	01-09-2013	\$41,200

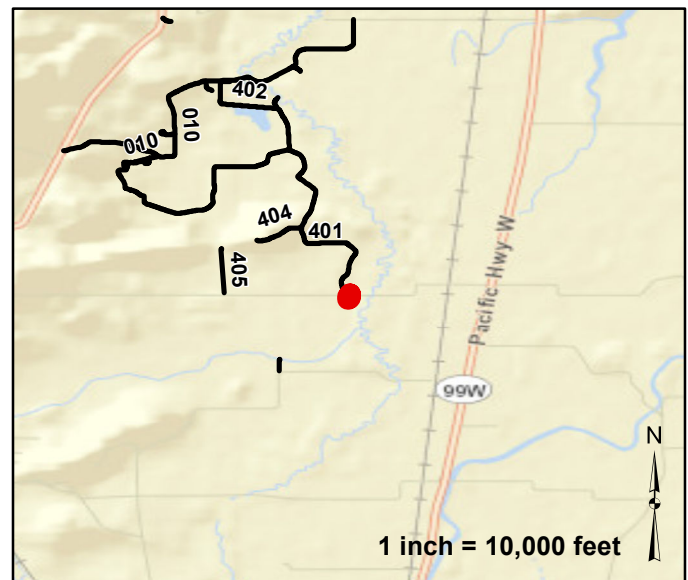
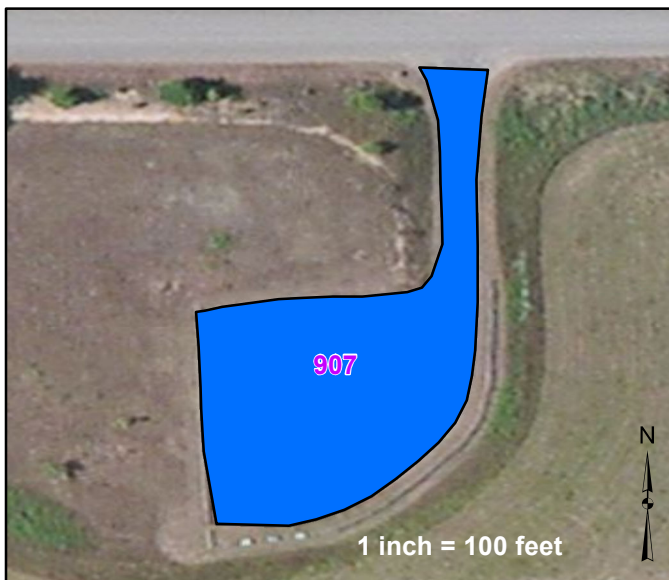


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed



**Route Number: 907**  
**Bruce Road Overlook Parking**  
**From Bruce Road**

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10004443	12200	15	Excellent	Gravel	\$0	01-09-2013	\$69,100

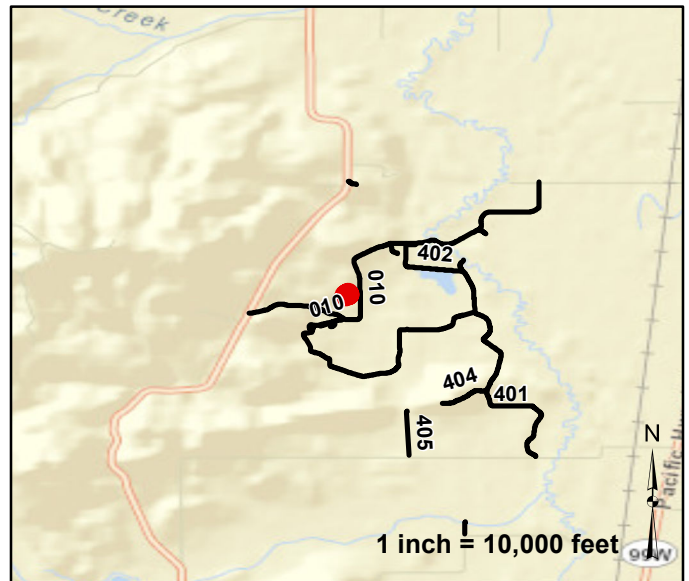
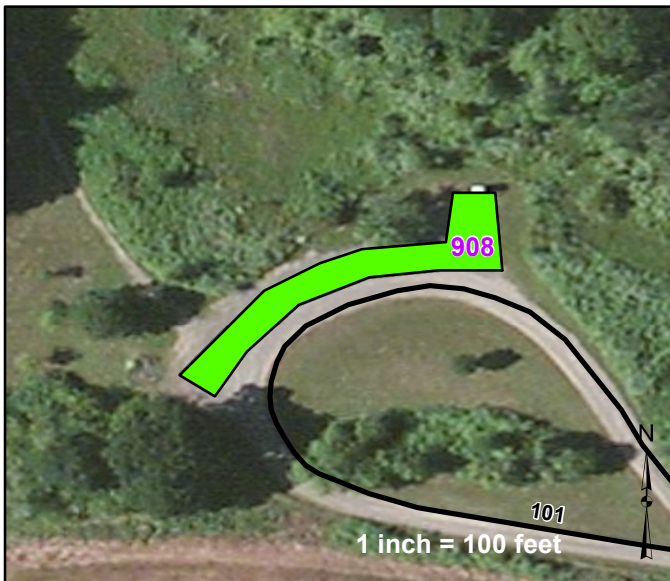


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed



**Route Number: 908**  
**Woodpecker Loop Parking**  
 From Woodpecker Loop Road (Route 101)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048913	2516	15	Good	Gravel	\$400	01-09-2013	\$14,300

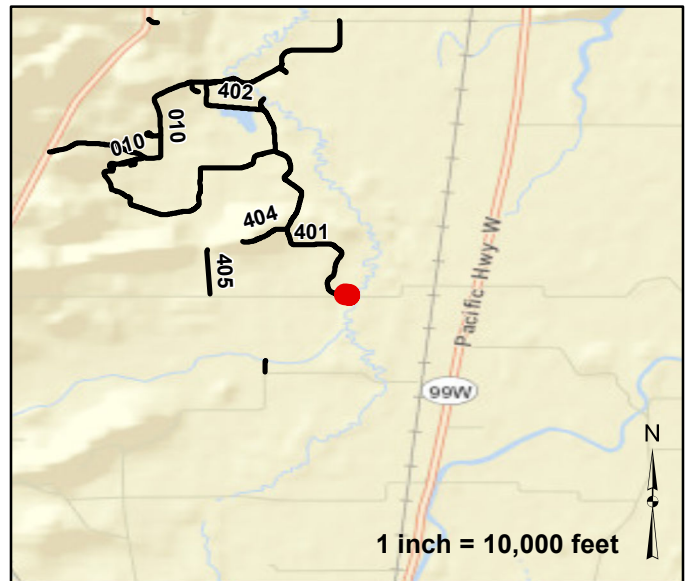


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads		Admin Bldg		Guardrail		Other	Good
		Begin Section		Fee Station		Problem Area	Fair
						Culvert	Poor
						Low_Water_Crossing	Failed
						Water_Control_Structure	



**Route Number: 909**  
**Cheadle Marsh Parking**  
**From Bruce Road**

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048181	5643	10	Excellent	Gravel	\$0	01-09-2013	\$32,000

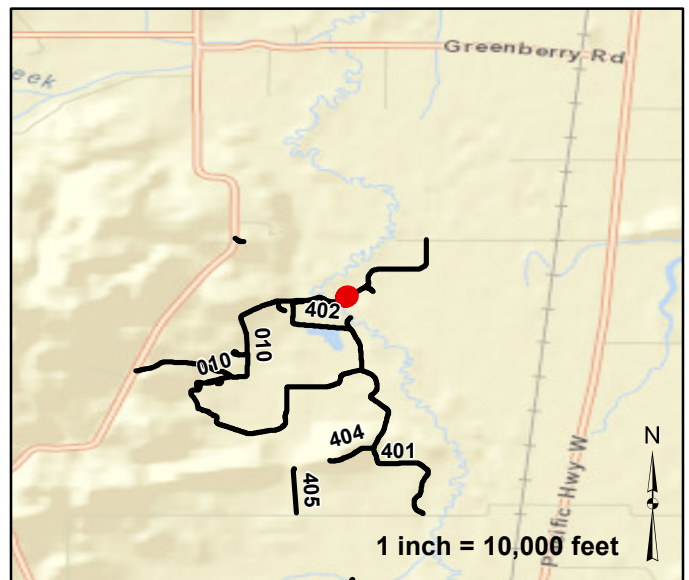


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed



**Route Number: 910**  
**Vehicle Turnout at Turtle Flats West**  
 From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048903	1007	5	Good	Gravel	\$200	01-09-2013	\$5,700



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads		Admin Bldg		Guardrail		Other	Good
		Begin Section		Fee Station		Problem Area	Fair
						Culvert	Poor
						Low_Water_Crossing	Failed
						Water_Control_Structure	

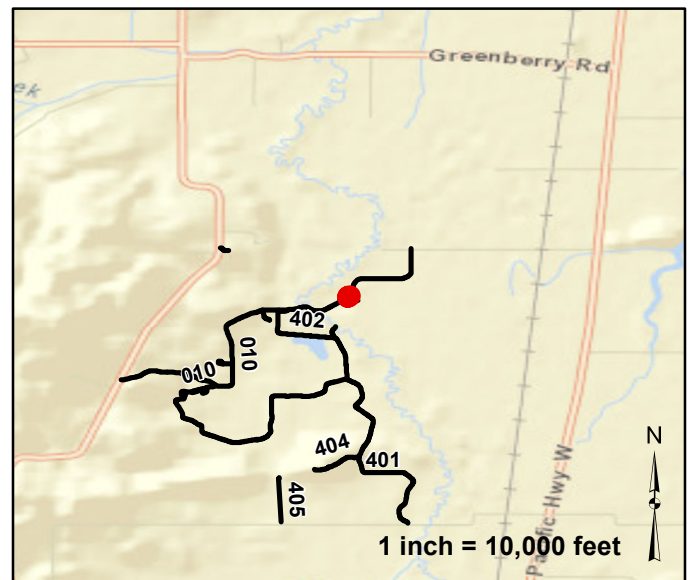
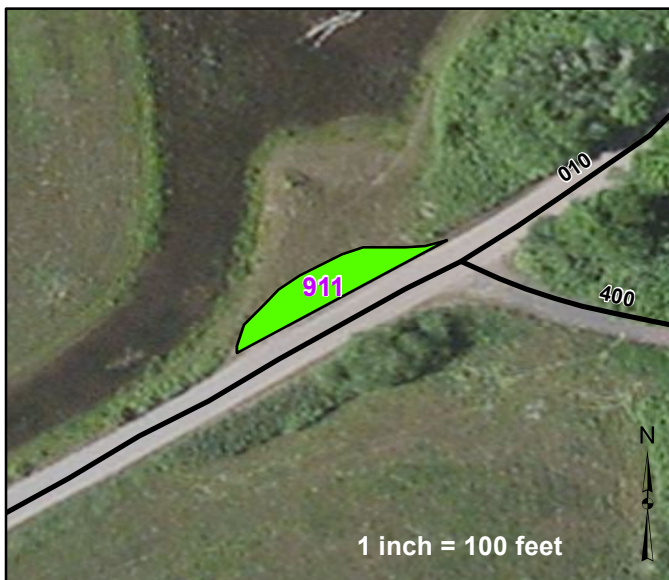


## Route Number: 911

### Turtle Flats East

From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048881	1196	5	Good	Gravel	\$200	01-09-2013	\$6,800

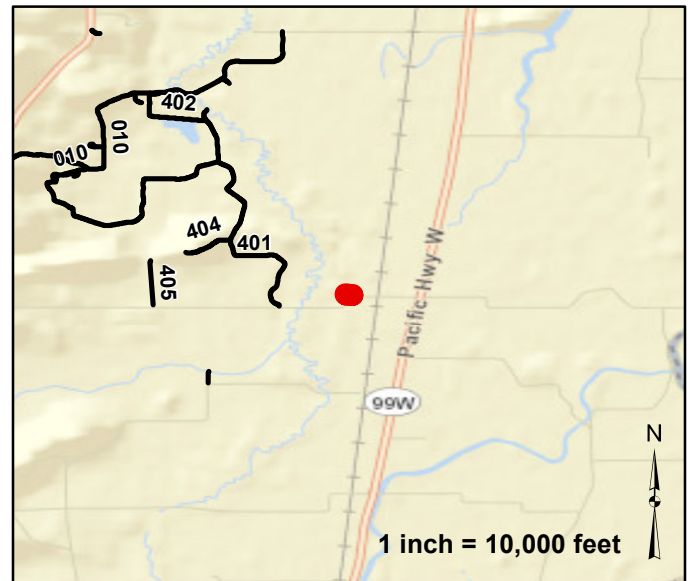
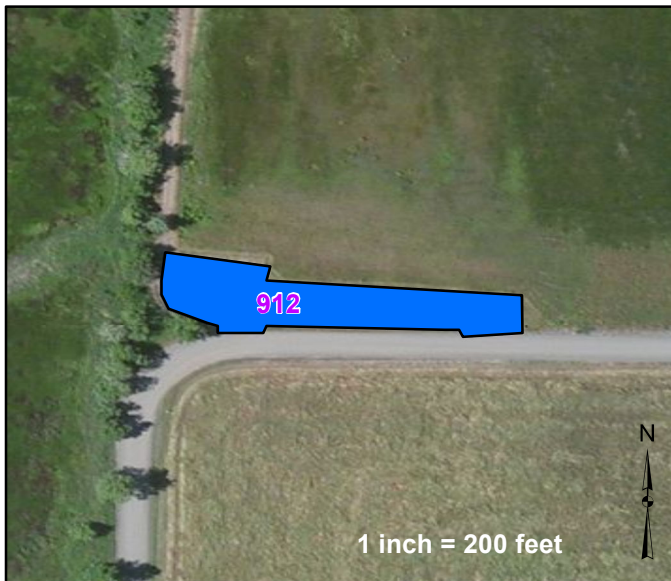


Parking		Features				Condition:	
	Other FWS roads		Gate		Boat Ramp		Visitor Center
			Admin Bldg		Guardrail		Other
			Begin Section		Fee Station		Problem Area
					Culvert		Low Water Crossing
					Water Control Structure		
							Excellent
							Good
							Fair
							Poor
							Failed



**Route Number: 912**  
**McFadden Marsh Observation Blind Parking**  
**From Bruce Road**

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048197	13493	20	Excellent	Gravel	\$0	01-09-2013	\$76,500

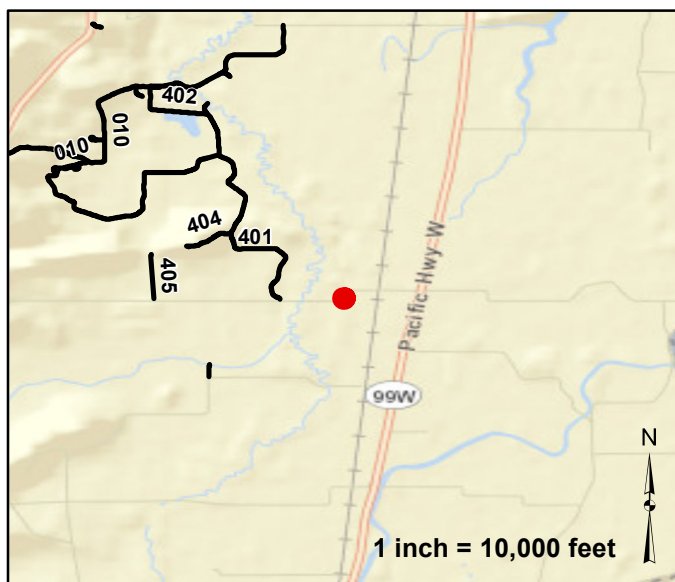
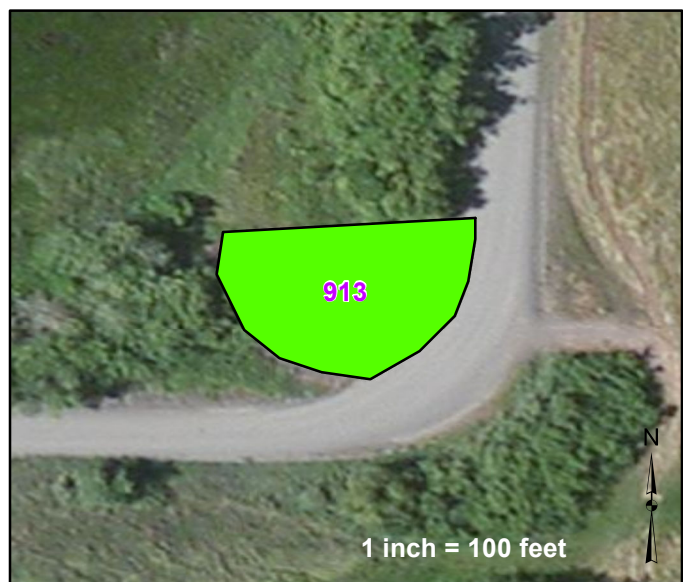


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed



**Route Number: 913**  
**McFadden Marsh East Parking Lot**  
**From Bruce Road**

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048196	6085	5	Good	Gravel	\$1,000	01-09-2013	\$34,500

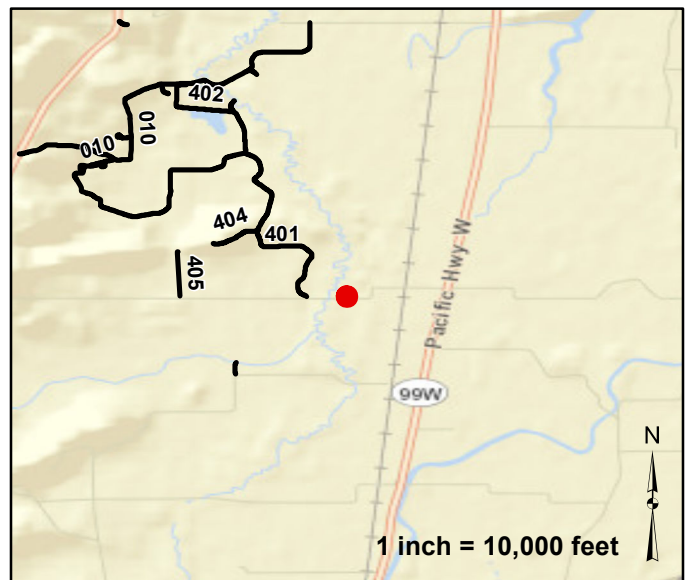


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads				Culvert		Poor
					Low_Water_Crossing		Failed
					Water_Control_Structure		



**Route Number: 914**  
**McFadden Marsh West Parking Lot**  
**From Bruce Road**

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048192	2857	10	Excellent	Gravel	\$0	01-09-2013	\$16,200

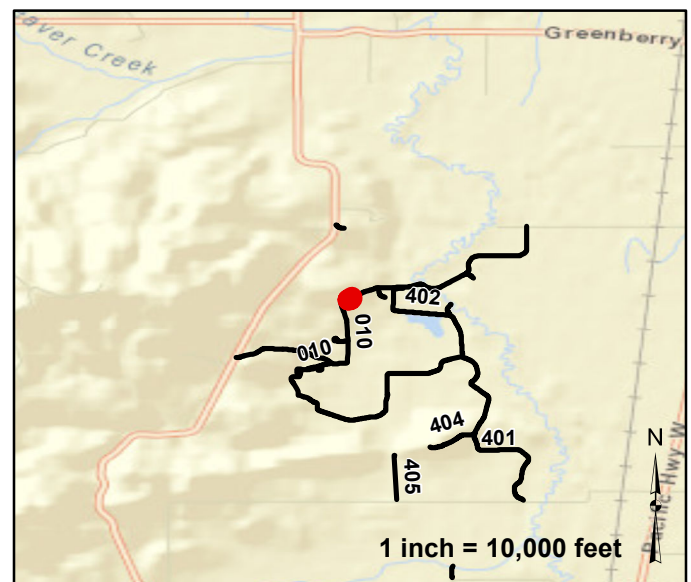
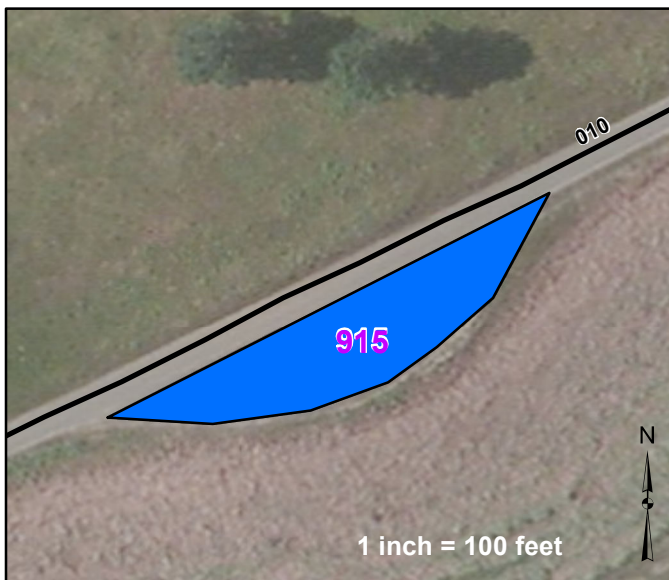


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads	Admin Bldg	Guardrail	Other	Culvert	Low_Water_Crossing		Good
	Begin Section	Fee Station	Problem Area	Water_Control_Structure			Fair
							Poor
							Failed



**Route Number: 915**  
**Field #22 Vehicle Turnout**  
**From Finley Refuge Road (Route 010)**

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048883	5956	5	Excellent	Gravel	\$0	01-09-2013	\$33,700



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
					Culvert		Poor
					Low_Water_Crossing		Failed
					Water_Control_Structure		

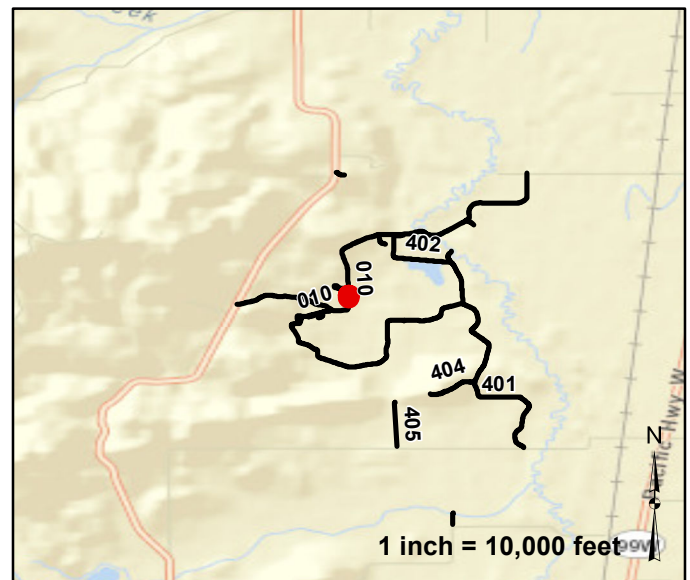
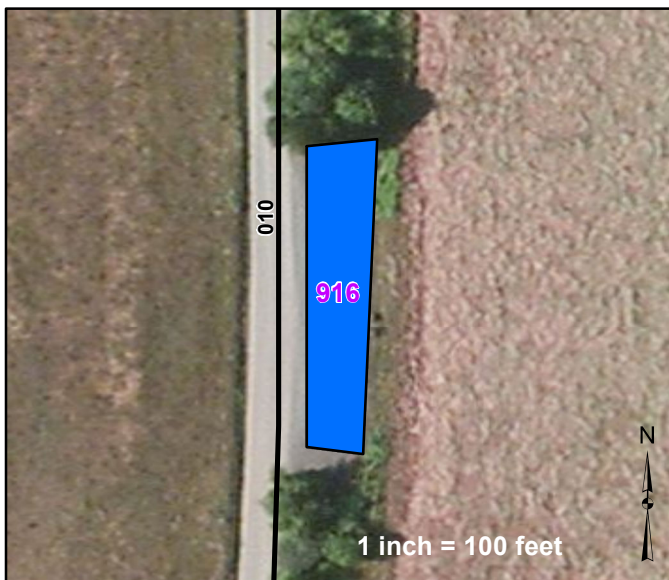


## Route Number: 916

### Field #4 Turnout

From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048884	3766	5	Excellent	Gravel	\$0	01-09-2013	\$21,300

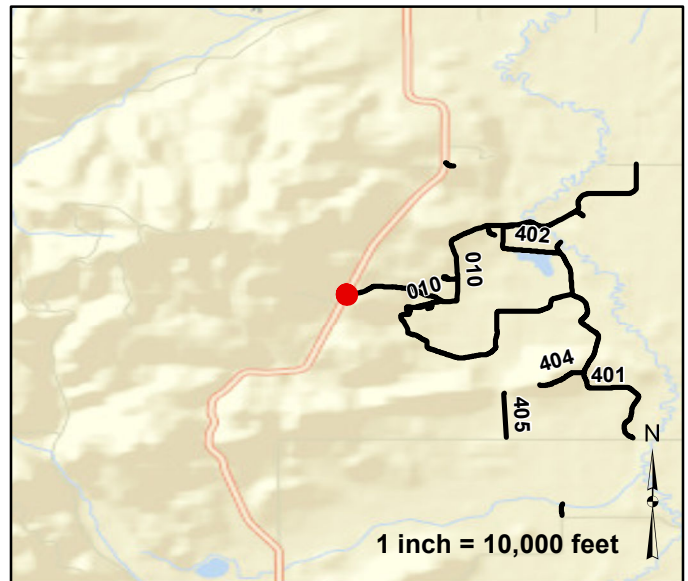
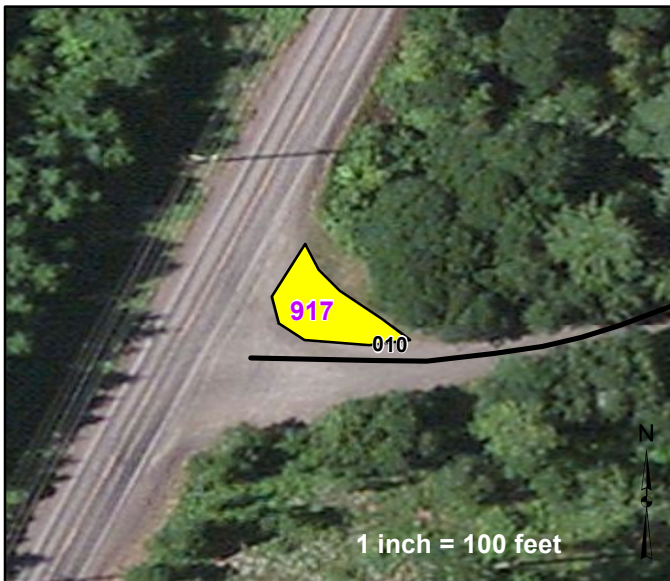


Parking		Features				Condition:	
	Other FWS roads		Gate		Boat Ramp		Excellent
			Admin Bldg		Guardrail		Good
			Begin Section		Fee Station		Fair
					Visitor Center		Poor
					Other		Failed
					Problem Area		
					Culvert		
					Low_Water_Crossing		
					Water_Control_Structure		



**Route Number: 917**  
**Vehicle Turnout at Bellfountain Entrance**  
 From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	1222	5	Fair	Gravel	\$400	01-09-2013	\$6,900

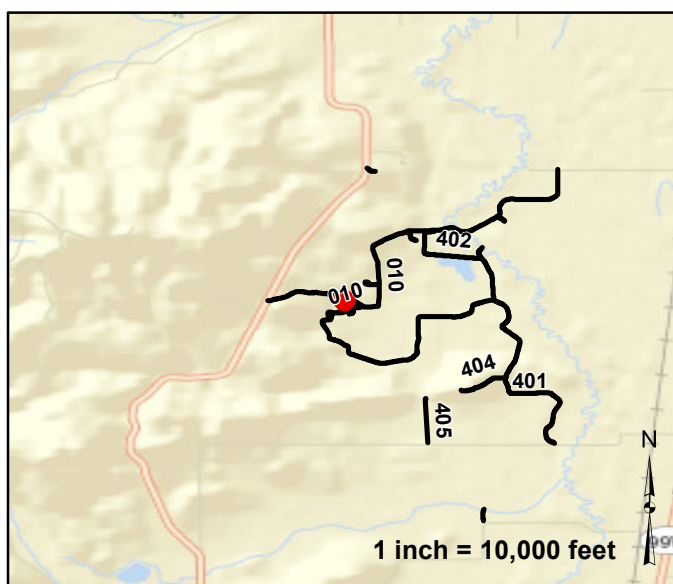
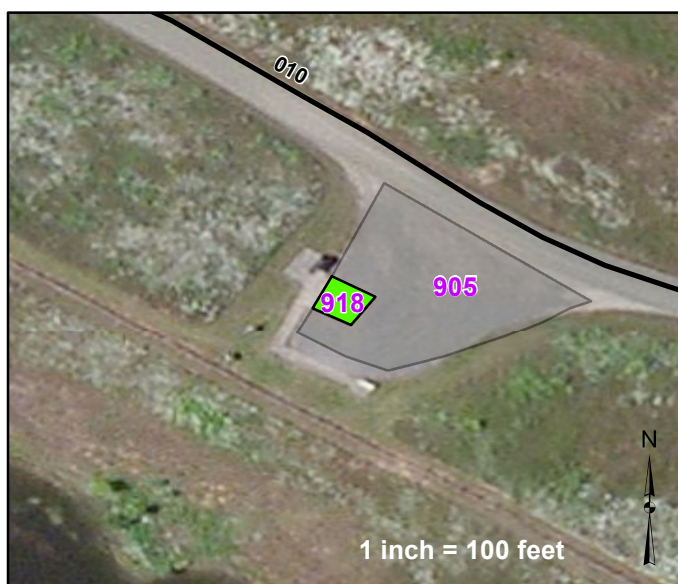


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads		Admin Bldg		Guardrail		Other	Good
		Begin Section		Fee Station		Problem Area	Fair
						Culvert	Poor
						Low_Water_Crossing	Failed
						Water_Control_Structure	



**Route Number: 918**  
**Mill Hill Trail HC Parking**  
 From Mill Hill Trail Parking (Route 905)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	317	1	Good	Concrete	\$100	01-09-2013	\$4,000

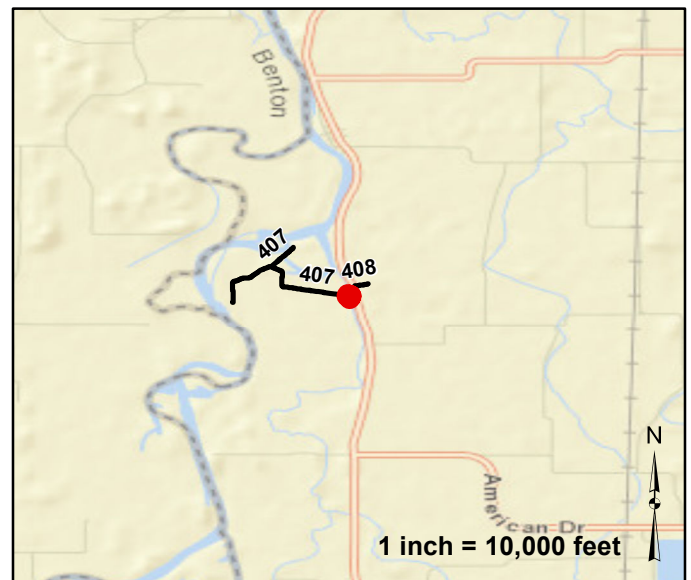


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads		Admin Bldg		Guardrail		Other	Good
		Begin Section		Fee Station		Problem Area	Fair
						Culvert	Poor
						Low_Water_Crossing	Failed
						Water_Control_Structure	



**Route Number: 919**  
**Snag Boat Bend West Parking**  
**From Snag Boat Bend West Access (Route 104)**

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	10081	40	Good	Gravel	\$1,700	01-10-2013	\$57,100

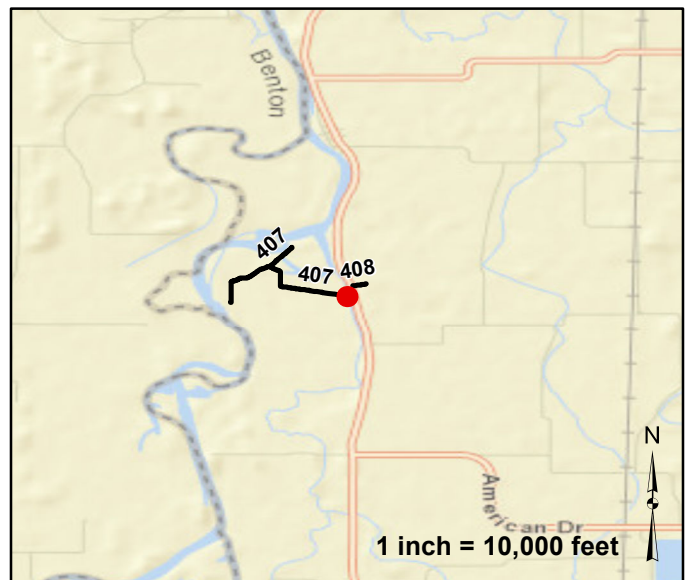


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads		Admin Bldg		Guardrail		Other	Good
		Begin Section		Fee Station		Problem Area	Fair
						Culvert	Poor
						Low_Water_Crossing	Failed
						Water_Control_Structure	



**Route Number: 920**  
**Snag Boat Bend Handicapped Parking North**  
 From Snag Boat Bend West Parking (Route 919)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10048575	408	1	Fair	Concrete	\$800	01-10-2013	\$5,100

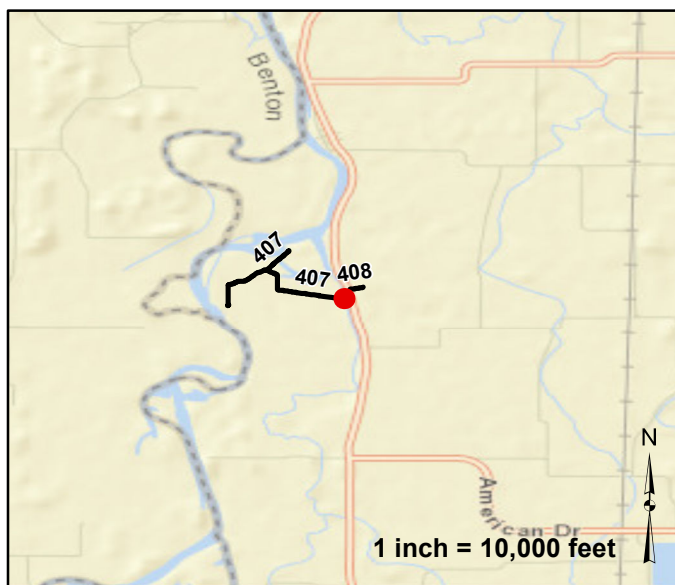
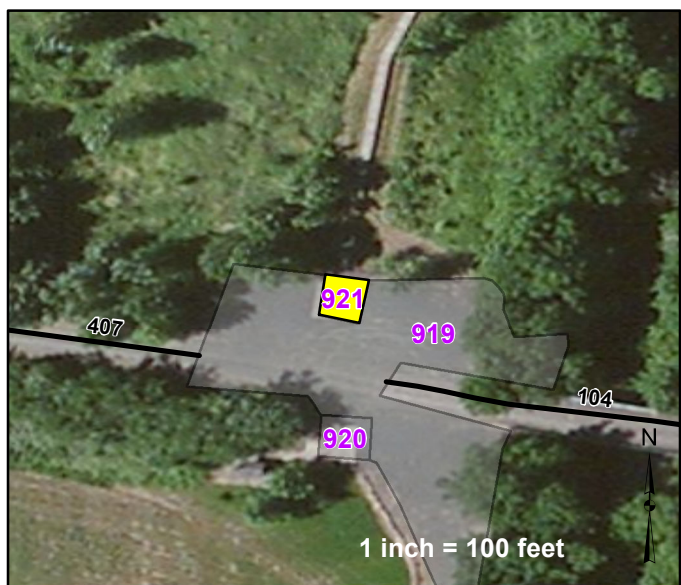


Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed



**Route Number: 921**  
**Snag Boat Bend Handicapped Parking South**  
 From Snag Boat Bend West Parking (Route 919)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	347	1	Fair	Concrete	\$700	01-10-2013	\$4,400



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads		Admin Bldg		Guardrail		Other	Good
		Begin Section		Fee Station		Problem Area	Fair
						Culvert	Poor
						Low_Water_Crossing	Failed
						Water_Control_Structure	

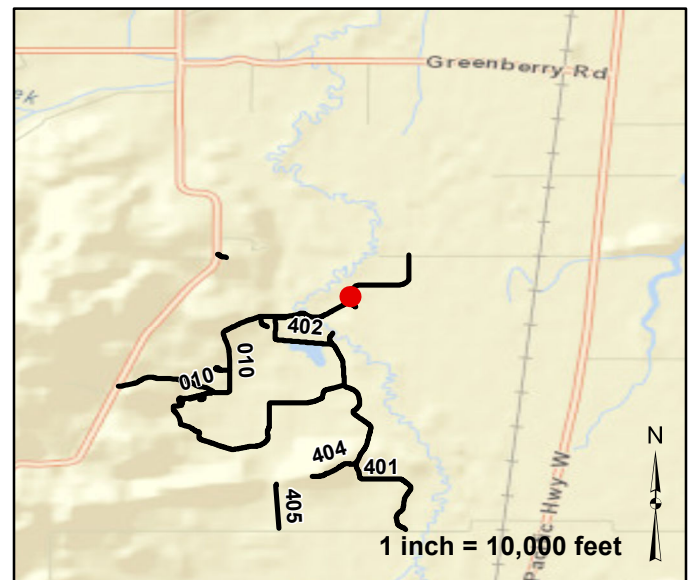


## Route Number: 922

### Restroom HC Parking

From Restroom Parking (Route 902)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	300	1	Good	Concrete	\$0	01-09-2013	\$3,800



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
Other FWS roads	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
					Culvert		Poor
					Low_Water_Crossing		Failed
					Water_Control_Structure		

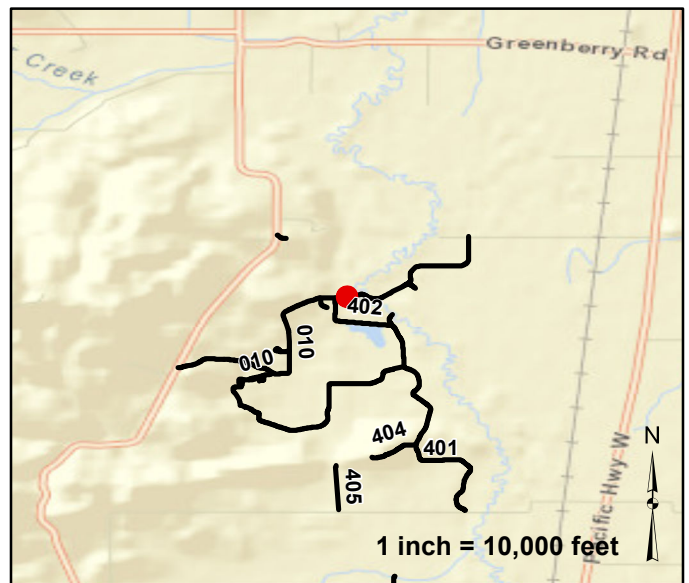


## Route Number: 923

### Photo Blind Parking

From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	2206	5	Excellent	Gravel	\$0	01-09-2013	\$12,500

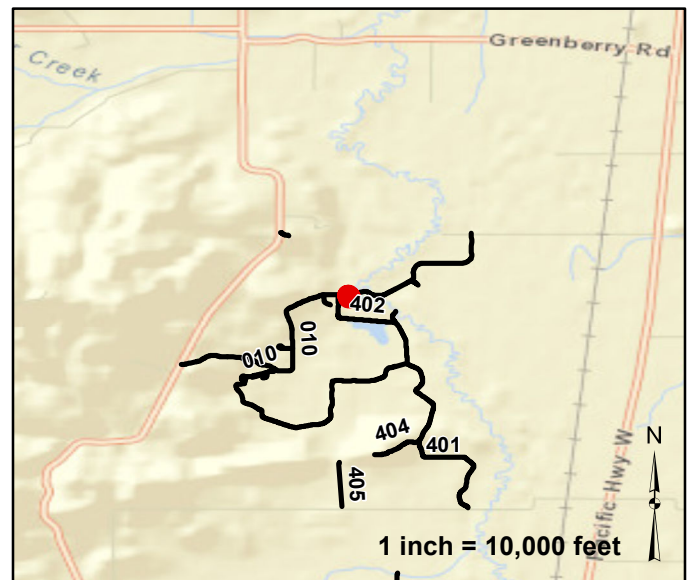


Parking		Features				Condition:	
	Other FWS roads		Gate		Boat Ramp		Visitor Center
			Admin Bldg		Guardrail		Other
			Begin Section		Fee Station		Problem Area
					Culvert		Low Water Crossing
					Water Control Structure		
							Excellent
							Good
							Fair
							Poor
							Failed



**Route Number: 924**  
**Homer Cambell Parking**  
 From Homer Cambell Road (Route 103)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10058598	6866	10	Good	Gravel	\$1,200	01-09-2013	\$38,900

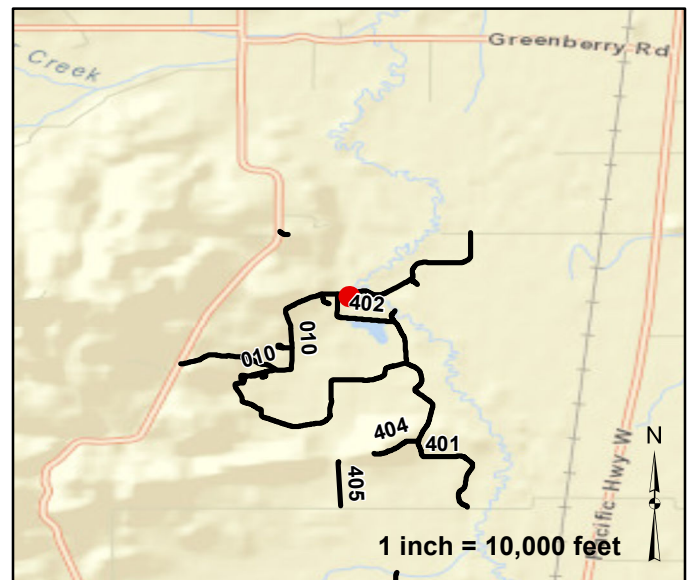


Parking		Features				Condition:	
	Other FWS roads	Gate	Boat Ramp	Visitor Center	Culvert		Excellent
		Admin Bldg	Guardrail	Other	Low_Water_Crossing		Good
		Begin Section	Fee Station	Problem Area	Water_Control_Structure		Fair
							Poor
							Failed



**Route Number: 925**  
**Homer Cambell HC Parking**  
 From Homer Cambell Parking (Route 924)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	203	1	Good	Concrete	\$0	01-09-2013	\$2,600



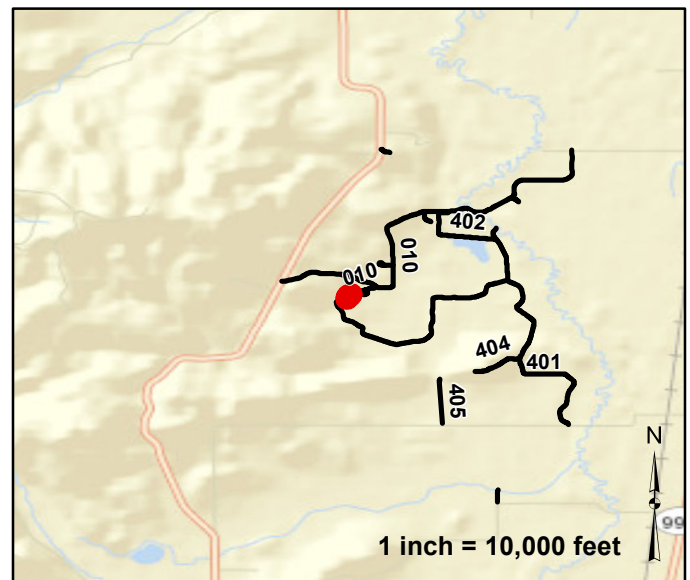
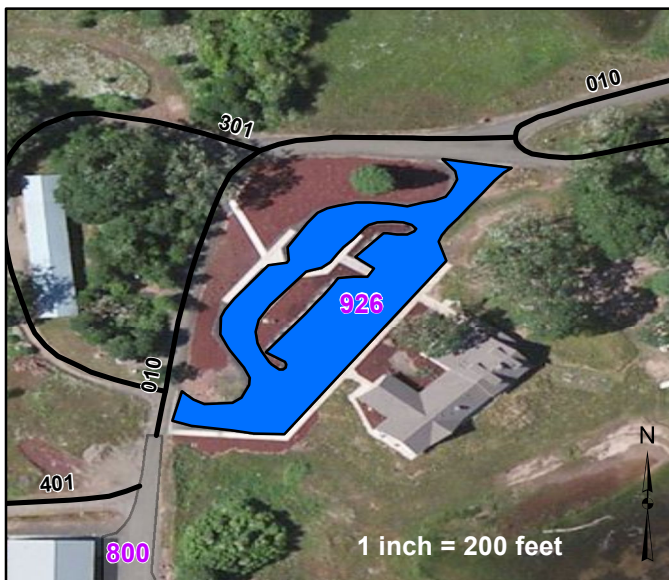
Parking		Features				Condition:	
	Other FWS roads	Gate	Boat Ramp	Visitor Center	Culvert	Excellent	
		Admin Bldg	Guardrail	Other	Low_Water_Crossing	Good	
		Begin Section	Fee Station	Problem Area	Water_Control_Structure	Fair	
						Poor	
						Failed	



## Route Number: 926 Visitor Center Parking

From Finley Refuge Road (Route 010)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	22296	32	Excellent	Asphalt	\$0	01-09-2013	\$231,500



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed



William L Finley - 13589 Bridge Inventory					
Rte #	Milepost	NBIS #	Sufficiency Rating	Functionally Obsolete	Structurally Deficient
10	1.18	000013589-0002	950	N	N
104	0.03	000013589-0030	398	N	N



## ROUTE: 010

## Features Photographs



Photo: WIFI\_C4\_0269 Route: 010-001-0.0  
Begin Section



Photo: WIFI\_C4\_0271 Route: 010-001-0.01  
Metal Open Rail Gate



Photo: WIFI\_C4\_0276 Route: 010-001-0.63  
Metal WCS Flashboard Riser  
50ft long 48in dia. 2ft deep



Photo: WIFI\_C4\_0277 Route: 010-001-0.63  
Metal WCS Flashboard Riser  
50ft long 48in dia. 2ft deep



Photo: WIFI\_C4\_0293 Route: 010-001-0.98  
Metal Culvert 40ft long 48in dia. 1ft deep



Photo: WIFI\_C4\_0294 Route: 010-001-0.98  
Metal Culvert 40ft long 48in dia. 1ft deep



## ROUTE: 010

## Features Photographs



Photo: WIFI\_C4\_0295 Route: 010-002-1.02  
Begin Section



Photo: WIFI\_C4\_0296 Route: 010-002-1.18  
Concrete Bridge NBIS:000013589-0002  
MUDDY CREEK Asset# 10004453



Photo: WIFI\_C4\_0304 Route: 010-002-1.43  
Metal Open Rail Gate



Photo: WIFI\_C4\_0311 Route: 010-002-1.67  
Plastic Culvert 25ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0312 Route: 010-002-1.67  
Plastic Culvert 25ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0315 Route: 010-002-1.8  
Plastic Culvert 25ft long 12in dia. 1ft deep



## ROUTE: 010

## Features Photographs



Photo: WIFI\_C4\_0316 Route: 010-002-1.8  
Plastic Culvert 25ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0317 Route: 010-002-1.96  
Plastic Culvert 25ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0318 Route: 010-002-1.96  
Plastic Culvert 25ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0324 Route: 010-003-2.0  
Begin Section



Photo: WIFI\_C4\_0325 Route: 010-003-2.14  
Metal WCS Flashboard Riser  
30ft long 48in dia. 2ft deep



Photo: WIFI\_C4\_0326 Route: 010-003-2.14  
Metal WCS Flashboard Riser  
30ft long 48in dia. 2ft deep



## ROUTE: 010

## Features Photographs



Photo: WIFI\_C4\_0341 Route: 010-003-2.7  
Plastic Culvert 25ft long 6in dia. 1ft deep



Photo: WIFI\_C4\_0342 Route: 010-003-2.7  
Plastic Culvert 25ft long 6in dia. 1ft deep



Photo: WIFI\_C4\_0343 Route: 010-003-2.77  
Plastic Culvert 30ft long 24in dia. 1ft deep



Photo: WIFI\_C4\_0344 Route: 010-003-2.77  
Plastic Culvert 30ft long 24in dia. 1ft deep



Photo: WIFI\_C4\_0345 Route: 010-004-2.89  
Begin Section



Photo: WIFI\_C4\_0346 Route: 010-004-3.06  
Plastic Culvert 30ft long 12in dia. 1ft deep



## ROUTE: 010

## Features Photographs



Photo: WIFI\_C4\_0347 Route: 010-004-3.06  
Plastic Culvert 30ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0348 Route: 010-004-3.08  
Metal Culvert 30ft long 24in dia. 2ft deep



Photo: WIFI\_C4\_0349 Route: 010-004-3.08  
Metal Culvert 30ft long 24in dia. 2ft deep



Photo: WIFI\_C4\_0350 Route: 010-004-3.21  
Metal Open Rail Gate



Photo: WIFI\_C4\_0366 Route: 010-005-2.47  
Begin Section



Photo: WIFI\_C4\_0369 Route: 010-005-2.54  
Metal Culvert 25ft long 24in dia. 1ft deep



## ROUTE: 010

## Features Photographs



Photo: WIFI\_C4\_0370 Route: 010-005-2.54  
Metal Culvert 25ft long 24in dia. 1ft deep



Photo: WIFI\_C4\_0367 Route: 010-005-2.55  
Plastic Culvert 25ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0368 Route: 010-005-2.55  
Plastic Culvert 25ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0371 Route: 010-006-2.66  
Begin Section



Photo: WIFI\_C4\_0372 Route: 010-006-2.76  
Metal Culvert 30ft long 24in dia. 1ft deep



Photo: WIFI\_C4\_0373 Route: 010-006-2.76  
Metal Culvert 30ft long 24in dia. 1ft deep



## ROUTE: 010

## Features Photographs



Photo: WIFI\_C4\_0374 Route: 010-006-2.76  
Metal Open Rail Gate



## ROUTE: 100

## Features Photographs



Photo: WIFI\_C4\_0307 Route: 100-001-0.0  
Begin Section



## ROUTE: 101

## Features Photographs



Photo: WIFI\_C4\_0328 Route: 101-001-0.0  
Metal Culvert 50ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0329 Route: 101-001-0.0  
Metal Culvert 50ft long 12in dia. 1ft deep



Photo: WIFI\_C4\_0327 Route: 101-001-0.0  
Begin Section



## ROUTE: 103

## Features Photographs



Photo: WIFI\_C4\_0299 Route: 103-001-0.0  
Begin Section



## ROUTE: 104

## Features Photographs



Photo: WIFI\_C4\_0422 Route: 104-001-0.0  
Begin Section



Photo: WIFI\_C4\_0423 Route: 104-001-0.03  
Concrete Bridge NBIS:000013589-0030  
LAKE CREEK Asset# 10059557



## ROUTE: 300

## Features Photographs



Photo: WIFI\_C4\_0362 Route: 300-001-0.0  
Begin Section



Photo: WIFI\_C4\_0364 Route: 300-001-0.01  
Plastic Culvert 30ft long 18in dia. 1ft deep



Photo: WIFI\_C4\_0365 Route: 300-001-0.01  
Plastic Culvert 30ft long 18in dia. 1ft deep



Photo: WIFI\_C4\_0363 Route: 300-001-0.01  
Metal Open Rail Gate



## ROUTE: 301

## Features Photographs



Photo: WIFI\_C4\_0361 Route: 301-001-0.0  
Begin Section



## ROUTE: 400

## Features Photographs



Photo: WIFI\_C4\_0284 Route: 400-001-0.0  
Begin Section



Photo: WIFI\_C4\_0285 Route: 400-001-0.0  
Metal Cable Gate



Photo: WIFI\_C4\_0286 Route: 400-001-0.07  
Obstacle Road changes to dirt and is too wet to drive



## ROUTE: 401

## Features Photographs



Photo: WIFI\_C4\_0360 Route: 401-001-0.0  
Begin Section



Photo: WIFI\_C4\_0375 Route: 401-001-0.22  
Metal Cable Gate



Photo: WIFI\_C4\_0376 Route: 401-002-0.96  
Begin Section



Photo: WIFI\_C4\_0377 Route: 401-002-1.13  
Metal Culvert 20ft long 24in dia. 1ft deep



Photo: WIFI\_C4\_0378 Route: 401-002-1.13  
Metal Culvert 20ft long 24in dia. 1ft deep



Photo: WIFI\_C4\_0379 Route: 401-002-1.43  
Metal WCS Flashboard Riser  
30ft long 48in dia. 2ft deep



## ROUTE: 401

## Features Photographs



Photo: WIFI\_C4\_0380 Route: 401-002-1.43  
Metal WCS Flashboard Riser 30ft long 48in dia. 2ft deep



Photo: WIFI\_C4\_0381 Route: 401-003-1.96  
Begin Section



Photo: WIFI\_C4\_0393 Route: 401-003-2.17  
Metal WCS Flashboard Riser 40ft long 24in dia. 3ft deep



Photo: WIFI\_C4\_0394 Route: 401-003-2.17  
Metal WCS Flashboard Riser 40ft long 24in dia. 3ft deep



Photo: WIFI\_C4\_0397 Route: 401-004-2.94  
Begin Section



Photo: WIFI\_C4\_0398 Route: 401-004-3.34  
Plastic Culvert 30ft long 18in dia. 2ft deep



## ROUTE: 401

## Features Photographs



Photo: WIFI\_C4\_0399 Route: 401-004-3.34  
Plastic Culvert 30ft long 18in dia. 2ft deep



Photo: WIFI\_C4\_0400 Route: 401-004-3.86  
Metal Open Rail Gate



## ROUTE: 402

## Features Photographs



Photo: WIFI\_C4\_0382 Route: 402-001-0.0  
Begin Section



Photo: WIFI\_C4\_0383 Route: 402-001-0.11  
Metal WCS Flashboard Riser 50ft long 48in dia. 2ft deep



Photo: WIFI\_C4\_0384 Route: 402-001-0.11  
Metal WCS Flashboard Riser 50ft long 48in dia. 2ft deep



Photo: WIFI\_C4\_0385 Route: 402-001-0.42  
Metal WCS Screw Gate 30ft long 12in dia. 3ft deep



Photo: WIFI\_C4\_0386 Route: 402-001-0.42  
Metal WCS Screw Gate 30ft long 12in dia. 3ft deep



Photo: WIFI\_C4\_0387 Route: 402-001-0.59  
Metal WCS Flashboard Riser 50ft long  
48in dia. 4ft deep



## ROUTE: 402

## Features Photographs



Photo: WIFI\_C4\_0388 Route: 402-001-0.59  
Metal WCS Flashboard Riser 50ft long 48in dia. 4ft deep



Photo: WIFI\_C4\_0389 Route: 402-001-0.79  
Metal Culvert 40ft long 48in dia. 3ft deep



Photo: WIFI\_C4\_0390 Route: 402-001-0.79  
Metal Culvert 40ft long 48in dia. 3ft deep



Photo: WIFI\_C4\_0391 Route: 402-001-1.02  
Metal Open Rail Gate



## ROUTE: 403

## Features Photographs



Photo: WIFI\_C4\_0392 Route: 403-001-0.0  
Begin Section



## ROUTE: 404

## Features Photographs



Photo: WIFI\_C4\_0396 Route: 404-001-0.0  
Begin Section



## ROUTE: 405

## Features Photographs



Photo: WIFI\_C4\_0408 Route: 405-001-0.0  
Begin Section



Photo: WIFI\_C4\_0409 Route: 405-001-0.0  
Metal Open Rail Gate



## ROUTE: 406

## Features Photographs



Photo: WIFI\_C4\_0421 Route: 406-001-0.0  
Begin Section



## ROUTE: 407

## Features Photographs



Photo: WIFI\_C4\_0432 Route: 407-001-0.0  
Begin Section



Photo: WIFI\_C4\_0433 Route: 407-001-0.0  
Metal Open Rail Gate



Photo: WIFI\_C4\_0434 Route: 407-001-0.09  
Concrete WCS Flashboard Riser  
25ft long 24in dia. 1ft deep



Photo: WIFI\_C4\_0435 Route: 407-001-0.09  
Concrete WCS Flashboard Riser  
25ft long 24in dia. 1ft deep



Photo: WIFI\_C4\_0436 Route: 407-002-1.02  
Begin Section



Photo: WIFI\_C4\_0437 Route: 407-003-0.69  
Begin Section



## ROUTE: 408

## Features Photographs



Photo: WIFI\_C4\_0439 Route: 408-001-0.0  
Begin Section



Photo: WIFI\_C4\_0440 Route: 408-001-0.01  
Metal Open Rail Gate



## ROUTE: 409

## Features Photographs



Photo: WIFI\_C4\_0262 Route: 409-001-0.0  
Begin Section



Photo: WIFI\_C4\_0263 Route: 409-001-0.0  
Metal Open Rail Gate



Photo: WIFI\_C4\_0264 Route: 409-001-0.07  
Problem Area Trees down



## ROUTE: 600

## Features Photographs



Photo: WIFI\_C4\_0260 Route: 600-001-0.0  
Problem Area  
Location of Mill Hill Prarie Access Road / Overgrown



Photo: WIFI\_C4\_0261 Route: 600-001-0.0  
Metal Open Rail Gate



## ROUTE: 602

## Features Photographs



Photo: WIFI\_C4\_0274 Route: 602-001-0.0  
Obstacle Location of North Prairie Road  
Asset # 10048925/ too wet to drive



Photo: WIFI\_C4\_0275 Route: 602-001-0.0  
Metal Open Rail Gate



## ROUTE: 603

## Features Photographs



Photo: WIFI\_C4\_0405 Route: 603-001-0.0  
Obstacle Location of Field 12 Access Road  
Asset# 10064330/ road too wet to drive



Photo: WIFI\_C4\_0404 Route: 603-001-0.0  
Metal Open Rail Gate



## ROUTE: 604

## Features Photographs



Photo: WIFI\_C4\_0410 Route: 604-001-0.0

Obstacle

Location of Field 55 Entrance Road/ Road is impassible



## ROUTE: 605

## Features Photographs



Photo: WIFI\_C4\_0420 Route: 605-001-0.0

Obstacle

Location of Field 64 Access Road/ too wet to drive



## ROUTE: 919

## Features Photographs



Photo: WIFI\_C4\_0431 Route: 919  
Metal Open Rail Gate



### Accident Summary

Number of Accidents Reported	Timespan of Accidents	Injuries	Fatalities
0	No Accidents to Report	0	0



## APPENDIX

<b>FWS ROAD FUNCTIONAL CLASSIFICATION</b>	
<b>Class I</b>	Principal Refuge Road (Public Roads) - Routes that constitute the main access route, main auto tour route, or thoroughfare for refuge visitors. These routes are accessible by 2WD vehicles. Routes are numbered from 10 to 99.
<b>Class II</b>	Connector Refuge Road (Public Roads) - Routes that provide circulation within the refuge. These routes can also provide access to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, education centers, etc. These routes are accessible by 2WD vehicles. Routes are numbered from 100 to 199.
<b>Class III</b>	Special Purpose Refuge Road (Public Roads) - Roads that provide circulation within special use areas such as campgrounds or public concessionaire facilities or access to remote areas of the refuge. These routes may not be 2WD accessible. Routes are numbered from 200 to 299
<b>Class IV</b>	Administrative Access Road (Administrative Roads) - Routes intended for access to administrative developments or structures such as maintenance offices, employee quarters, or utility areas. These routes are accessible by 2WD vehicles. These routes may restrict access to the general public. Routes are numbered from 300 to 399.
<b>Class V</b>	Restricted Road (Administrative Roads) - Routes normally closed to the public, such as maintenance roads, service roads, patrol roads, and fire breaks. These routes may be open to the public for a short period of time for a special use, such as hunting access. These routes may not be 2WD accessible. Routes are numbered from 400 to 499.

A refuge road system contains those routes within or giving access to a refuge or other unit of the FWS that are administered by the FWS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a refuge road is not based on traffic volumes or design speed, but on the intended use or function of that route.



## DESCRIPTION OF RATING SYSTEM

Rating Data is collected on five different surface types: Asphalt, Concrete, Gravel, Native Improved and Native Primitive. The Utah LTAP Center's Remaining Service Life (RSL) system is used for all surface types. The RSL system is based on the Strategic Highway Research Program's (SHRP) Distress Identification Manual.

### Asphalt Rating System

Data is collected on the following distresses and conditions:

- **Fatigue Cracking** - Interconnected cracks forming small irregular shapes.
- **Longitudinal Cracking** - Cracks running parallel with the roadway, in the direction of traffic.
- **Transverse Cracking** - Cracks perpendicular to the roadway, going across the lane or lanes.
- **Block Cracking** - Interconnected cracks forming large blocks.
- **Edge Cracking** - Cracks running along the edge of the pavement surface.
- **Patches** - Original surface repaired with new asphalt patch material.
- **Potholes** - Holes or depressions in the pavement.
- **Rutting** - surface depressions in the wheel paths.
- **Roughness** - Evenness of pavement for serviceability.
- **Drainage** - Ability of the road surface to drain water based on proper slope.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

### Rating Index Formula

Fatigue, longitudinal, transverse, block, and edge cracking, along with patching and potholes are rated on a 0 - 9 scale (0 = no distress, 9 = maximum distress). The rating given is based on the extent and the severity of the distress. Rutting, roughness, and drainage are rated on a 0 - 3 scale (0 = excellent, 3 = poor). Each distress type has a given Remaining Service Life (RSL) value (in years) based on the rating for that distress. The distress rating resulting in the lowest RSL value is considered to be the governing distress. That value is assigned as the RSL of the road segment.

### Concrete Rating System

Data is collected on the following distresses and conditions:

- **Spalling of Joints** - Chipping, breaking, or cracking of slab edges
- **Joint Seal Damage** - Any damage or condition that enables materials or water to infiltrate into the joint from the surface.
- **Corner Breaks** - A portion of the slab separated by a crack that intersects the adjacent transverse and longitudinal joints, forming approximately a 45° angle to the direction.
- **Broken Slabs** - Faulting and/or cracking localized to individual slabs.
- **Faulting** - Difference in elevation across a crack or joint.
- **Longitudinal Cracking** - Cracks in the pavement running parallel to road.



- **Transverse Cracking** - Cracks in the pavement running perpendicular to the direction of traffic.
- **Patch Deterioration** – Faulting, settling, or cracking of previously placed patch
- **Map Cracking** – A series of cracks that extend only into the upper surface of the Slab

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

### **Rating Index Formula**

The rating procedure for concrete pavement is the same as that for asphalt pavement described previously. Each of the distresses described above are rated on the same 0 – 9 scale. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

### **Gravel and Native Improved Rating System**

Data is collected on the following distresses and conditions:

- **Cross Section (Gravel, Native Improved only)** - Roadway built so that the center is higher than the shoulder, to prevent water from pooling on roadway.
- **Roadside Drainage (Gravel, Native Improved only)** - Roadside ditches and culverts to handle water flow and prevent pooling on the roadside.
- **Corrugations (Washboarding)** - Small trenches or holes developing perpendicular to the roadway.
- **Potholes** - Holes or depressions in the roadway.
- **Rutting** - Depressions running parallel with the roadway, in the wheelpaths.
- **Dust** - Amount of dust caused by traffic.
- **Loose Aggregate (Gravel Only)** - Loose gravel, typically piled up on the roadway edges or centerline.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

### **Rating Index Formula**

The rating procedure for unpaved roads is the same as that for asphalt and concrete pavements described previously. Of the distresses described above, corrugations, potholes, rutting, and loose aggregate are rated on the same 0 – 9 scale previously mentioned. Cross section, roadside drainage, and dust are rated on the same 0 – 3 scale described for asphalt pavement. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.



## Condition Descriptions by Surface Type

The following definitions are used to describe pavement condition for the various surface types. These are general guidelines for condition indications.

### Asphalt

**Excellent** – Recently constructed or overlaid road where construction or overlay was performed correctly- No maintenance required. RSL = 19-20 years.

**Good** – Low extent longitudinal and transverse cracks. All cracks are 1/4" or less with little or no crack erosion. Patches are in good condition and applied correctly. Routine Maintenance recommended. RSL = 13-18 years.

**Fair** - Roads are in good structural condition with little or no fatigue cracking. Longitudinal, transverse, and edge cracking is at medium extent and severity. Block cracking is not extensive. Any patches are in good condition. Preventative maintenance recommended. RSL = 7-12 years.

**Poor** - Road beginning to show signs of structural distress. Fatigue cracking is medium to high extent and medium severity. Cracking will be severe. Surface may have severe block cracking and show. Patches are in fair to poor condition. There is moderate distortion or rutting and occasional potholes. Rehabilitation recommended. RSL = 1-6 years.

**Failed** - Road is severely deteriorated. Signs of structural failure appear along with severe and extensive fatigue cracking, distortion, potholes, or extensive patches in poor condition. Reconstruction recommended. RSL = 0 years.

### Concrete

**Excellent** - New pavement. No maintenance required. RSL = 19-20 years

**Good** - First signs of transverse cracking, patch or repair, more extensive pop-outs, or scaling. Sealing or routine maintenance recommended. RSL = 13-18 years.

**Fair** – Pavement has joint or crack spalling, and/or faulting, along with cracking at corners with broken pieces. Any Patches are in fair condition and faulting is at a minimum. Preventative maintenance recommended. RSL = 7-12 years.

**Poor** - Joints and cracks are open 1 inch, spalled, or patched. Faulting is more severe. Rehabilitation recommended. RSL = 1-6 years.

**Failed** - Most slabs have failed structurally, and faulting is severe. Reconstruction recommended. RSL = 0 years.11-9

The following table shows the relationship between RSL and condition.



SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE (Asphalt and Concrete Pavements)								
	FAILED	POOR		FAIR		GOOD		EXCELLENT
RSL Years	0	1-3	4-6	7-9	10-12	13-15	16-18	19-20

### Gravel and Native

**Excellent** - Newly constructed road that has been constructed properly with proper crown, drainage and gravel layer. Little or no distress. No maintenance recommended. RSL = 8-10 years.

**Good** - Crown, drainage provisions, and gravel layer are in good condition. Distress limited to traffic effects such as dust, loose aggregate, and low severity corrugations (wash boarding). RSL = 5-7 years.

**Fair** - Adequate drainage and crown through majority of roadway. Crown repair, ditch improvement may be necessary. Road has more severe corrugations and potholes. Preventative maintenance recommended. RSL = 3-4 years.

**Poor** - Travel at slow speeds is necessary. Additional gravel layer needed to carry traffic. Poor crown. Ditching is inadequate and rutting is extensive and severe. Rehabilitation recommended. RSL = 1-2 years.

**Failed** - Travel is difficult, and road may be closed at times. Rutting and Corrugations are very severe. Total Reconstruction of road is recommended. RSL = 0 years.

The following table shows the RSL values for gravel and native roads in terms of excellent, good, fair, poor, and failed condition.

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE (Gravel and Native Surfaces)					
	FAILED	POOR	FAIR	GOOD	EXCELLENT
RSL Years	0	1-2	3-4	5-7	8-10



## NATIVE PRIMITIVE/IMPROVED RATING SHEET

<u>Cross Section (Crown)*</u>			
Severity	Condition		Description
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.
	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.
	Moderate Defects	2	Flat crown, drainage to ditch restricted.
	Major Defects	3	Reverse crown, bowl-shaped road, drainage on roadway

<u>Rutting</u>				
Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 6"	1	2	3
	Med 6-12"	4	5	6
	High > 12"	7	8	9

<u>Roadside Drainage*</u>			
Severity	Condition		Description
	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.
	Minor Defects	1	Adequate ditches (>2' deep), minor obstructions restrict water flow.
	Moderate Defects	2	Shallow, narrow and obstructed ditches. Minor erosion of road.
	Major Defects	3	No ditch, drainage on roadway with moderate to severe erosion.

<u>Potholes</u>				
Severity	Extent (Area)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 6"	1	2	3
	Med 6-12"	4	5	6
	High > 12"	7	8	9

<u>Dust</u>			
Severity	Condition		Description
	No Defects	0	No obstruction to sight distance.
	Minor Defects	1	Sight distance > 550'
	Moderate Defects	2	Sight distance 225'-550'
	Major Defects	3	Sight distance < 225'

<u>Corrugations</u>				
Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 3"	1	2	3
	Med 3-6"	4	5	6
	High > 6"	7	8	9

\* Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.



## GRAVEL RATING SHEET

### Cross Section (Crown)

Severity	Condition		Description
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.
	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.
	Moderate Defects	2	Flat crown, drainage to ditch restricted.
	Major Defects	3	Reverse crown, bowl-shaped road, drainage on roadway

### Rutting

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1"	1	2	3
	Med 1-3"	4	5	6
	High > 3"	7	8	9

### Roadside Drainage

Severity	Condition		Description
	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.
	Minor Defects	1	Adequate ditches (>2' deep), minor obstructions restrict water flow.
	Moderate Defects	2	Shallow, narrow and obstructed ditches. Minor erosion of road.
	Major Defects	3	No ditch, drainage on roadway with moderate to severe erosion.

### Potholes

Severity	Extent (Area)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1"	1	2	3
	Med 1-3"	4	5	6
	High > 3"	7	8	9

### Dust

Severity	Condition		Description
	No Defects	0	No obstruction to sight distance.
	Minor Defects	1	Sight distance > 550'
	Moderate Defects	2	Sight distance 225'-550'
	Major Defects	3	Sight distance < 225'

### Corrugations

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 2"	1	2	3
	Med 2-4"	4	5	6
	High > 4"	7	8	9

\* Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.

### Loose Aggregate

Severity	Extent (Area)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1"	1	2	3
	Med 1-3"	4	5	6
	High > 3"	7	8	9



# ASPHALT RATING SHEET

## Fatigue Cracking

Severity	Extent			
	No Defects	Low 1 crack WP	Med 2 cracks WP	High >30% length
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Edge Cracking

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	0-6" from curb	1	2	3
	6-18" from curb	4	5	6
	> 18" from curb	7	8	9

## Longitudinal Cracking

Severity	Extent			
	No Defects	Low 1 crack full length	Med 2 cracks full length	High >2 cracks full length
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Block Cracking

Severity	Extent (Length)			
	No Defects	Low > 15x15' squares	Med 15-10' squares	High <10x10' squares
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Transverse Cracking

Severity	Extent (ft between cracks)			
	No Defects	Low > 200'	Med 200-50'	High < 50'
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Utility Cuts

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Drainage/Roughness/Rutting

Severity	Condition		Description
	No Defects	0	Wide, deep ditches with no obstructions, smooth ride, no rutting, no potholes.
	Minor Defects	1	Drainage may be obstructed, < 1" rutting, minor roughness.
	Moderate Defects	2	Poor drainage, 1-2" rutting, noticeable roughness, potholes < 6" wide.
	Major Defects	3	No drainage; > 2" rutting; potholes 6-12" wide create roughness requiring reduced speeds.



# CONCRETE RATING SHEET

## Spalling of Joints

Extent (% joints)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low Spalls < 3"	1	2	3
	Med Spalls 3-6"	4	5	6
	High Spalls > 6"	7	8	9

## Broken Slabs

Extent (% slabs)				
No Defects	Low <5%	Med 5-15%	High >15%	
Severity	Low-no more than 3 pieces, no spalling/faulting	1	2	3
	Med-broken into >3 pieces, spalling/faulting <1/4"	4	5	6
	High-4 or more pieces, spalling/faulting >1/4"	7	8	9

## Transverse Cracks

Extent (% slabs)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-Cracks < 1/8"; no spalling/faulting	1	2	3
	Med-Cracks 1/8-1/2"; spall <3", fault >1/4"	4	5	6
	High-Cracks > 1/2"; spall >3", fault >1/4"	7	8	9

## Joint Seal Damage

Extent (%joints)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low <10% joint length	1	2	3
	Med 10-50% joint length	4	5	6
	High >50% joint length	7	8	9

## Faulting

Extent (Length)				
No Defects	Low <10%	Med 10-30%	High >30%	
Severity	Low < 1/2"	1	2	3
	Med 1/2-1"	4	5	6
	High > 1"	7	8	9

## Patch Deterioration

Extent (Area)				
No Defects	Low <10%	Med 10-30%	High >30%	
Severity	Low-no fault, no settle at perimeter	1	2	3
	Med-fault & settle <1/4" at perimeter	4	5	6
	High-fault & settle >1/4" at perimeter, cracked patch	7	8	9

## Corner Breaks

Extent (% of slabs)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-corner cracks, no spalling or faulting	1	2	3
	Med-crack slightly spalled & faulted <1/4"	4	5	6
	High-crack highly spalled & faulted >1/4"	7	8	9

## Longitudinal Cracks

Extent (% slabs)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-Cracks < 1/8"; no spalling/faulting	1	2	3
	Med-Cracks 1/8-1/2"; spall <3", fault >1/2"	4	5	6
	High-Cracks > 1/2"; spall >3", fault >1/2"	7	8	9

## Map Cracks

Extent (Area)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-small connected cracks, no spalling	1	2	3
	Med-connected cracks, no spalling	4	5	6
	High-large connected cracks with surface spalling	7	8	9



# Deficiency Ratings With Associated Remaining Service Life

## Asphalt Rating Sheet

Fatigue Cracking		Edge Cracking		Transverse Cracking		Utility Cuts	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20	0	20
1	10	1	12	1	14	1	14
2	8	2	10	2	12	2	12
3	6	3	8	3	10	3	10
4	8	4	10	4	12	4	12
5	6	5	8	5	10	5	10
6	4	6	6	6	8	6	8
7	6	7	8	7	10	7	10
8	2	8	6	8	6	8	6
9	0	9	4	9	2	9	2

Longitudinal Cracking		Block Cracking		Drainage/Roughness/Rutting	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20
1	14	1	12	1	16
2	12	2	10	2	10
3	10	3	8	3	4
4	12	4	10		
5	10	5	8		
6	8	6	6		
7	10	7	12		
8	8	8	6		
9	6	9	2		

## Concrete Rating Sheet

Spalling		Broken Slabs		Transverse Cracks	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20
1	15	1	15	1	18
2	12	2	12	2	15
3	10	3	10	3	12
4	12	4	12	4	15
5	10	5	10	5	10
6	8	6	8	6	6
7	10	7	10	7	10
8	6	8	6	8	4
9	0	9	0	9	0

Joint Seal Damage		Faulting		Patch Deterioration	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	18
1	16	1	15	1	16
2	14	2	12	2	14
3	12	3	10	3	12
4	14	4	12	4	12
5	10	5	8	5	10
6	8	6	6	6	8
7	12	7	10	7	10
8	8	8	4	8	6
9	6	9	0	9	0

Corner Breaks		Longitudinal Cracks		Map Cracks	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	18	0	20	0	20
1	16	1	18	1	18
2	14	2	15	2	15
3	12	3	12	3	12
4	12	4	15	4	12
5	10	5	10	5	10
6	8	6	6	6	6
7	10	7	10	7	10
8	6	8	4	8	4
9	0	9	0	9	0

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Asphalt & Concrete Roads)

RSL	FAILED 0	POOR 1 - 6	FAIR 7 - 12	GOOD 13 - 18	EXCELLENT 19 - 20
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# Deficiency Ratings With Associated Remaining Service Life

## Native Primitive Improved Rating Sheet

Cross Section		Rutting		Roadside Drainage	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	7	1	9	1	8
2	5	2	7	2	4
3	0	3	5	3	0
		4	7		
		5	4		
		6	3		
		7	4		
		8	2		
		9	0		

Potholes		Dust		Corrugations	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	9	1	8	1	9
2	7	2	6	2	7
3	5	3	2	3	7
4	7			4	6
5	4			5	5
6	3			6	5
7	4			7	4
8	2			8	3
9	0			9	0

## Gravel Rating Sheet

Cross Section		Rutting		Roadside Drainage	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	7	1	9	1	8
2	5	2	7	2	4
3	0	3	5	3	0
		4	7		
		5	4		
		6	3		
		7	4		
		8	2		
		9	0		

Potholes		Dust		Corrugations	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	9	1	8	1	9
2	7	2	6	2	7
3	5	3	2	3	7
4	7			4	6
5	4			5	5
6	3			6	5
7	4			7	4
8	2			8	3
9	0			9	0

Loose Aggregate	
Distress Rating	Remaining Service Life
0	10
1	9
2	8
3	7
4	8
5	7
6	6
7	5
8	3
9	0

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Gravel & Native Roads)

RSL	FAILED	POOR	FAIR	GOOD	EXCELLENT
	0	1 - 2	3 - 4	5 - 7	8 - 10